

GO enrichment by NetBAS

HBG

This R script is used to calculate z-scores

```
rm(list=ls())
library(plyr)
library(gplots)

##
## Attaching package: 'gplots'
## The following object is masked from 'package:stats':
##
##      lowess
library(microbenchmark)
library(matrixStats)

##
## Attaching package: 'matrixStats'
## The following object is masked from 'package:plyr':
##
##      count
library(GO.db)

## Loading required package: AnnotationDbi
## Loading required package: stats4
## Loading required package: BiocGenerics
## Loading required package: parallel
##
## Attaching package: 'BiocGenerics'
## The following objects are masked from 'package:parallel':
##
##      clusterApply, clusterApplyLB, clusterCall, clusterEvalQ,
##      clusterExport, clusterMap, parApply, parCapply, parLapply,
##      parLapplyLB, parRapply, parSapply, parSapplyLB
## The following objects are masked from 'package:stats':
##
##      IQR, mad, sd, var, xtabs
## The following objects are masked from 'package:base':
##
##      anyDuplicated, append, as.data.frame, basename, cbind,
##      colMeans, colnames, colSums, dirname, do.call, duplicated,
##      eval, evalq, Filter, Find, get, grep, grepl, intersect,
##      is.unsorted, lapply, lengths, Map, mapply, match, mget, order,
##      paste, pmax, pmax.int, pmin, pmin.int, Position, rank, rbind,
```

```

## Reduce, rowMeans, rownames, rowSums, sapply, setdiff, sort,
## table, tapply, union, unique, unsplit, which, which.max,
## which.min

## Loading required package: Biobase

## Welcome to Bioconductor
##
## Vignettes contain introductory material; view with
## 'browseVignettes()'. To cite Bioconductor, see
## 'citation("Biobase")', and for packages 'citation("pkgname)".

##
## Attaching package: 'Biobase'

## The following objects are masked from 'package:matrixStats':
##
## anyMissing, rowMedians

## Loading required package: IRanges

## Loading required package: S4Vectors

##
## Attaching package: 'S4Vectors'

## The following object is masked from 'package:gplots':
##
## space

## The following object is masked from 'package:plyr':
##
## rename

## The following object is masked from 'package:base':
##
## expand.grid

##
## Attaching package: 'IRanges'

## The following object is masked from 'package:plyr':
##
## desc

##
#all GO terms
go.file <- read.csv("data/human.go.csv", header=T, stringsAsFactors=F)
GO.gene <- go.file$gene
GO.id <- go.file$goid
GO.type <- go.file$type

bp.go.cat <- unique(sort(GO.id[which(GO.type == "P")]))
cc.go.cat <- unique(sort(GO.id[which(GO.type == "C")]))
mf.go.cat <- unique(sort(GO.id[which(GO.type == "F")]))

bp.hspin <- matrix(as.numeric(unlist(read.table("output/genes.bp.csv", header=F, sep=","))), ncol=1)
bp.obs <- c(bp.hspin)
bp.dim <- length(bp.go.cat)
cc.hspin <- matrix(as.numeric(unlist(read.table("output/genes.cc.csv", header=F, sep=","))), ncol=1)

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cc.obs <- c(cc.hspin)
cc.dim <- length(cc.go.cat)
mf.hspin <- matrix(as.numeric(unlist(read.table("output/genes.mf.csv", header=F, sep=","))), ncol=1)
mf.obs <- c(mf.hspin)
mf.dim <- length(mf.go.cat)

#data from 100 permutations generated using previous R code (02.GO.Rmd)
bp.perm <- c()
cc.perm <- c()
mf.perm <- c()
for (i in 1:100) {
  bp.name <- paste("output/ms02.", i, ".bp.csv", sep="")
  cc.name <- paste("output/ms02.", i, ".cc.csv", sep="")
  mf.name <- paste("output/ms02.", i, ".mf.csv", sep="")
  bp.mat <- matrix(as.numeric(unlist(read.table(bp.name, header=F, sep=","))), ncol=1)
  cc.mat <- matrix(as.numeric(unlist(read.table(cc.name, header=F, sep=","))), ncol=1)
  mf.mat <- matrix(as.numeric(unlist(read.table(mf.name, header=F, sep=","))), ncol=1)
  bp.perm <- rbind(bp.perm, c(bp.mat))
  cc.perm <- rbind(cc.perm, c(cc.mat))
  mf.perm <- rbind(mf.perm, c(mf.mat))
}

bp.mean <- colMeans(bp.perm)
bp.std <- colSds(bp.perm)
cc.mean <- colMeans(cc.perm)
cc.std <- colSds(cc.perm)
mf.mean <- colMeans(mf.perm)
mf.std <- colSds(mf.perm)

#Z-score calculations
bp.zscore <- c()
for (k in 1:bp.dim) {
  bp.zscore[k] <- round((bp.obs[k] - bp.mean[k])/max(1, bp.std[k]), 3)
}

cc.zscore <- c()
for (k in 1:cc.dim) {
  cc.zscore[k] <- round((cc.obs[k] - cc.mean[k])/max(1, cc.std[k]), 3)
}

mf.zscore <- c()
for (k in 1:mf.dim) {
  mf.zscore[k] <- round((mf.obs[k] - mf.mean[k])/max(1, mf.std[k]), 3)
}

bp.order <- order(-bp.zscore)
mf.order <- order(-mf.zscore)
cc.order <- order(-cc.zscore)

z.bp <- matrix(bp.zscore[bp.order], nrow=bp.dim)
z.cc <- matrix(cc.zscore[cc.order], nrow=cc.dim)
z.mf <- matrix(mf.zscore[mf.order], nrow=mf.dim)

```

```

bp.obs <- bp.obs[bp.order]
bp.mean <- round(bp.mean[bp.order],3)
bp.std <- round(bp.std[bp.order],3)
cc.obs <- cc.obs[cc.order]
cc.mean <- round(cc.mean[cc.order],3)
cc.std <- round(cc.std[cc.order],3)
mf.obs <- mf.obs[mf.order]
mf.mean <- round(mf.mean[mf.order],3)
mf.std <- round(mf.std[mf.order],3)

rownames(z.bp) <- bp.go.cat[bp.order]
rownames(z.cc) <- cc.go.cat[cc.order]
rownames(z.mf) <- mf.go.cat[mf.order]

bp.enrich.list <- rownames(z.bp)
cc.enrich.list <- rownames(z.cc)
mf.enrich.list <- rownames(z.mf)
bp.enrich.list <- rownames(z.bp)
cc.enrich.list <- rownames(z.cc)
mf.enrich.list <- rownames(z.mf)

bp.enriched.terms <- c("GO.ID", "GO.Term", "zscore", "obs", "mean", "std")
for (i in 1:length(bp.enrich.list)) {
  id <- as.character(bp.enrich.list[i])
  term <- Term(GOID(id))
  z.gene <- z.bp[i]
  bp.enriched.terms <- rbind(bp.enriched.terms, c(id, term, z.gene, bp.obs[i], bp.mean[i], bp.std[i]))
}
bp.enriched.terms

##
## bp.enriched.terms "GO.ID"
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## "GO:0006120"
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## "GO:0009060"
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##      "regulation of glutamine family amino acid metabolic process"
##      "regulation of pyruvate dehydrogenase activity"
##      "generation of precursor metabolites and energy"
##      "protein lipoylation"
##      "vacuolar proton-transporting V-type ATPase complex assembly"
##      "response to oxidative stress"
##      "regulation of macroautophagy"
##      "fatty acid beta-oxidation using acyl-CoA dehydrogenase"
##      "fructose 1,6-bisphosphate metabolic process"
##      "neutrophil degranulation"
##      "cristae formation"
##      "vacuolar acidification"
##      "mitochondrial tRNA processing"
##      "mitochondrial tRNA 5'-end processing"
##      "mitochondrial tRNA methylation"
##      "mitochondrial tRNA 3'-end processing"
##      "insulin receptor signaling pathway"
##      "mitochondrion organization"
##      "fructose catabolic process to hydroxyacetone phosphate and glyceraldehyde-3-phosph
##      "ubiquinone-6 biosynthetic process"
##      "regulation of oxidoreductase activity"
##      "mitochondrial respiratory chain complex III assembly"
##      "tricarboxylic acid metabolic process"
##      "glutamine metabolic process"
##      "regulation of acetyl-CoA biosynthetic process from pyruvate"
##      "adenine transport"
##      "branched-chain amino acid catabolic process"
##      "2-oxoglutarate metabolic process"
##      "negative regulation of ATP citrate synthase activity"
##      "cellular response to increased oxygen levels"
##      "microtubule-based process"
##      "respiratory electron transport chain"
##      "ATP transport"
##      "apoptotic mitochondrial changes"
##      "carbohydrate metabolic process"
##      "positive regulation of mitochondrial translation"
##      "pyruvate metabolic process"
##      "ADP transport"
##      "succinyl-CoA metabolic process"

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##      "mitochondrial electron transport, succinate to ubiquinone"
##      "reproductive system development"
##      "cellular response to oxidative stress"
##      "protein homotetramerization"
##      "ATP hydrolysis coupled cation transmembrane transport"
##      "long-chain fatty acid metabolic process"
##      "binding of sperm to zona pellucida"
##      "activation of cysteine-type endopeptidase activity involved in apoptotic process"
##      "response to light intensity"
##      "succinate metabolic process"
##      "ATP synthesis coupled proton transport"
##      "regulation of mitochondrial mRNA stability"
##      "ATP synthesis coupled electron transport"
##      "regulation of reactive oxygen species biosynthetic process"
##      "aerobic electron transport chain"
##      "negative regulation of mitochondrial electron transport, NADH to ubiquinone"
##      "methylation"
##      "phospholipid metabolic process"
##      "biosynthetic process"
##      "neutral lipid metabolic process"
##      "regulation of phospholipase activity"
##      "regulation of glutamate secretion"
##      "negative regulation of monooxygenase activity"
##      "regulation of acyl-CoA biosynthetic process"
##      "negative regulation of dopamine uptake involved in synaptic transmission"
##      "negative regulation of norepinephrine uptake"
##      "positive regulation of glutathione peroxidase activity"
##      "response to desipramine"
##      "positive regulation of hydrogen peroxide catabolic process"
##      "glycogen catabolic process"
##      "viral release from host cell"
##      "cell redox homeostasis"
##      "tRNA aminoacylation for protein translation"
##      "positive regulation of necrotic cell death"
##      "response to hydrogen peroxide"
##      "histone succinylation"
##      "mitochondrial membrane organization"
##      "heme biosynthetic process"
##      "nucleobase-containing small molecule interconversion"
##      "dopamine uptake involved in synaptic transmission"
##      "ATP metabolic process"
##      "anion transport"
##      "acetyl-CoA biosynthetic process from pyruvate"
##      "negative regulation of serotonin uptake"
##      "mitochondrial acetyl-CoA biosynthetic process from pyruvate"
##      "striated muscle contraction"
##      "protein refolding"
##      "negative regulation of dopamine metabolic process"
##      "response to magnesium ion"
##      "anion transmembrane transport"
##      "muscle cell cellular homeostasis"
##      "Rab protein signal transduction"
##      "regulation of mitochondrial membrane potential"
##      "ethanol oxidation"

```

```

##      "fructose 6-phosphate metabolic process"
##      "establishment of organelle localization"
##      "isocitrate metabolic process"
##      "amylopectin biosynthetic process"
##      "regulation of synaptic vesicle budding from presynaptic endocytic zone membrane"
##      "sulfur amino acid metabolic process"
##      "regulation of synaptic vesicle recycling"
##      "glucose import in response to insulin stimulus"
##      "inorganic anion transport"
##      "protein processing involved in protein targeting to mitochondrion"
##      "negative regulation of intrinsic apoptotic signaling pathway"
##      "hydrogen peroxide catabolic process"
##      "response to heat"
##      "microtubule cytoskeleton organization"
##      "ribosome disassembly"
##      "positive regulation of lipophagy"
##      "granzyme-mediated apoptotic signaling pathway"
##      "iron incorporation into metallo-sulfur cluster"
##      "plasma membrane to endosome transport"
##      "negative regulation of protein processing involved in protein targeting to mitochondrion"
##      "negative regulation of vascular endothelial growth factor production"
##      "positive regulation of aggrephagy"
##      "response to unfolded protein"
##      "dopamine biosynthetic process"
##      "galactose catabolic process"
##      "pH reduction"
##      "small molecule metabolic process"
##      "GDP-mannose biosynthetic process"
##      "response to iron(II) ion"
##      "response to mercury ion"
##      "negative regulation of ATP metabolic process"
##      "glucose 6-phosphate metabolic process"
##      "cellular oxidant detoxification"
##      "retinol metabolic process"
##      "negative regulation of transporter activity"
##      "regulation of cellular ketone metabolic process"
##      "mitochondrial respiratory chain complex II assembly"
##      "glycine catabolic process"
##      "glycine decarboxylation via glycine cleavage system"
##      "cellular iron ion homeostasis"
##      "lipoate metabolic process"
##      "dihydrolipoamide metabolic process"
##      "regulation of oxidative phosphorylation"
##      "negative regulation of thrombin-activated receptor signaling pathway"
##      "fatty acid beta-oxidation"
##      "'de novo' protein folding"
##      "response to vitamin B1"
##      "negative regulation of autophagy of mitochondrion"
##      "mesenchyme migration"
##      "CTP biosynthetic process"
##      "L-serine catabolic process"
##      "cellular amino acid biosynthetic process"
##      "subthalamus development"
##      "pons development"

```

```

##      "GTP biosynthetic process"
##      "one-carbon metabolic process"
##      "chaperone-mediated protein transport"
##      "translational frameshifting"
##      "positive regulation of translational termination"
##      "estrogen biosynthetic process"
##      "glycerophosphate shuttle"
##      "lipid droplet organization"
##      "protein folding"
##      "UDP-glucose metabolic process"
##      "CDP-diacylglycerol biosynthetic process"
##      "negative regulation of insulin secretion involved in cellular response to glucose"
##      "regulation of norepinephrine uptake"
##      "active induction of host immune response by virus"
##      "positive regulation of translational elongation"
##      "mitochondrial translational initiation"
##      "tRNA threonylcarbamoyladenosine modification"
##      "regulation of catalytic activity"
##      "protein N-linked glycosylation"
##      "negative regulation of intrinsic apoptotic signaling pathway by p53 class mediator"
##      "response to superoxide"
##      "negative regulation of mitochondrial outer membrane permeabilization involved in a"
##      "positive regulation of receptor recycling"
##      "peptidyl-arginine methylation, to symmetrical-dimethyl arginine"
##      "supramolecular fiber organization"
##      "seryl-tRNA aminoacylation"
##      "lipophagy"
##      "multi-organism intracellular transport"
##      "negative regulation of intralumenal vesicle formation"
##      "negative regulation of protein polymerization"
##      "urea cycle"
##      "arginine biosynthetic process via ornithine"
##      "mitochondrial calcium ion transmembrane transport"
##      "cellular response to unfolded protein"
##      "peptidyl-cysteine oxidation"
##      "cytoskeleton organization"
##      "selenocysteinyl-tRNA(Sec) biosynthetic process"
##      "endoplasmic reticulum tubular network membrane organization"
##      "glutathione metabolic process"
##      "regulation of transmembrane transporter activity"
##      "UTP biosynthetic process"
##      "regulation of cholesterol metabolic process"
##      "regulation of macrophage activation"
##      "positive regulation of telomerase RNA localization to Cajal body"
##      "regulation of CAMKK-AMPK signaling cascade"
##      "UDP-N-acetylglucosamine metabolic process"
##      "NADP metabolic process"
##      "cardiac muscle tissue development"
##      "peptidyl-lysine deacetylation"
##      "negative regulation of exosomal secretion"
##      "mitochondrial genome maintenance"
##      "chaperone cofactor-dependent protein refolding"
##      "carbohydrate phosphorylation"
##      "long-chain fatty-acyl-CoA biosynthetic process"

```

```

## "calcium ion homeostasis"
## "galactose catabolic process via UDP-galactose"
## "response to carbon monoxide"
## "'de novo' CTP biosynthetic process"
## "natural killer cell mediated cytotoxicity"
## "respiratory gaseous exchange"
## "L-threonine catabolic process to glycine"
## "epidermal growth factor catabolic process"
## "L-proline biosynthetic process"
## "mannose metabolic process"
## "selenocysteine metabolic process"
## "cellular response to UV-A"
## "phosphatidic acid biosynthetic process"
## "response to glucagon"
## "threonine catabolic process"
## "nucleoside diphosphate phosphorylation"
## "substantia nigra development"
## "UDP-N-acetylglucosamine biosynthetic process"
## "acetyl-CoA metabolic process"
## "cellular response to vitamin B1"
## "response to formaldehyde"
## "DNA protection"
## "actin filament fragmentation"
## "deoxyribonucleotide biosynthetic process"
## "fatty acid metabolic process"
## "negative regulation of chaperone-mediated autophagy"
## "protein import into mitochondrial intermembrane space"
## "peptidyl-lysine modification"
## "globoside metabolic process"
## "arginine transport"
## "lysosomal lumen pH elevation"
## "S-adenosylmethionine biosynthetic process"
## "endoplasmic reticulum organization"
## "protein hexamerization"
## "toxin transport"
## "cerebellar Purkinje cell layer development"
## "vocal learning"
## "tetrahydrofolate biosynthetic process"
## "response to cold"
## "regulation of COPII vesicle coating"
## "cellular response to osmotic stress"
## "positive regulation of protein localization to Cajal body"
## "positive regulation by host of viral genome replication"
## "cytolysis"
## "pyruvate biosynthetic process"
## "negative regulation of signal transduction by p53 class mediator"
## "removal of superoxide radicals"
## "arginine catabolic process to proline via ornithine"
## "arginine catabolic process to glutamate"
## "negative regulation of exocytosis"
## "regulation of pH"
## "cardiolipin biosynthetic process"
## "positive regulation of establishment of protein localization to telomere"
## "positive regulation of neurotransmitter secretion"

```

```

##      "galactose metabolic process"
##      "leucine catabolic process"
##      "age-dependent response to reactive oxygen species"
##      "acetylcholine-mediated vasodilation involved in regulation of systemic arterial b
##      "positive regulation of vascular smooth muscle cell differentiation involved in ph
##      "phagosome-lysosome fusion"
##      "cellular nitrogen compound metabolic process"
##      "positive regulation by host of viral release from host cell"
##      "neurotransmitter metabolic process"
##      "oxaloacetate metabolic process"
##      "cellular response to epinephrine stimulus"
##      "citrulline biosynthetic process"
##      "retinoic acid metabolic process"
##      "protein maturation by protein folding"
##      "T cell proliferation"
##      "malate metabolic process"
##      "negative regulation of inclusion body assembly"
##      "mitochondrion morphogenesis"
##      "citrate metabolic process"
##      "transmembrane transport"
##      "regulation of endoplasmic reticulum tubular network organization"
##      "regulation of cAMP-dependent protein kinase activity"
##      "positive regulation of proteasomal protein catabolic process"
##      "farnesyl diphosphate biosynthetic process, mevalonate pathway"
##      "nucleoside triphosphate biosynthetic process"
##      "acyl-CoA metabolic process"
##      "mitotic cell cycle"
##      "UDP-glucuronate biosynthetic process"
##      "glyoxylate cycle"
##      "negative regulation of microtubule polymerization"
##      "cellular response to UV-C"
##      "NADH metabolic process"
##      "porphyrin-containing compound biosynthetic process"
##      "rostrocaudal neural tube patterning"
##      "glucose metabolic process"
##      "glycerol-3-phosphate catabolic process"
##      "AMP salvage"
##      "glutamate metabolic process"
##      "L-lysine catabolic process to acetyl-CoA via saccharopine"
##      "negative regulation of platelet-derived growth factor receptor signaling pathway"
##      "glycerol-3-phosphate metabolic process"
##      "lysosomal lumen acidification"
##      "superoxide metabolic process"
##      "positive regulation of inositol 1,4,5-trisphosphate-sensitive calcium-release chan
##      "negative regulation of Fas signaling pathway"
##      "biotin metabolic process"
##      "retinal metabolic process"
##      "transcription factor catabolic process"
##      "regulation of pentose-phosphate shunt"
##      "[2Fe-2S] cluster assembly"
##      "diphosphate metabolic process"
##      "neuron death in response to oxidative stress"
##      "tRNA threonylcarbamoyladenosine metabolic process"
##      "sulfide oxidation, using sulfide:quinone oxidoreductase"

```



```

## "threonyl-tRNA aminoacylation"
## "thalamus development"
## "positive regulation of ATPase activity"
## "response to organonitrogen compound"
## "positive regulation of mini excitatory postsynaptic potential"
## "negative regulation of ATPase activity"
## "atrial septum development"
## "protein to membrane docking"
## "regulation of stem cell differentiation"
## "regulation of insulin secretion"
## "regulation of glycolytic process"
## "aging"
## "B cell cytokine production"
## "positive regulation of T cell mediated immune response to tumor cell"
## "isotype switching to IgG isotypes"
## "chaperone-mediated protein complex assembly"
## "alcohol metabolic process"
## "actin filament depolymerization"
## "heme a biosynthetic process"
## "pyramidal neuron development"
## "fatty acid biosynthetic process"
## "L-cysteine catabolic process"
## "L-alpha-amino acid transmembrane transport"
## "glucose 1-phosphate metabolic process"
## "traversing start control point of mitotic cell cycle"
## "positive regulation of hydrogen peroxide biosynthetic process"
## "response to water-immersion restraint stress"
## "sphingomyelin metabolic process"
## "AMP metabolic process"
## "glucosylceramide metabolic process"
## "galactosylceramide metabolic process"
## "glutathione derivative biosynthetic process"
## "ADP biosynthetic process"
## "negative regulation of nitrosative stress-induced intrinsic apoptotic signaling p
## "anion homeostasis"
## "7,8-dihydroneopterin 3'-triphosphate biosynthetic process"
## "pteridine-containing compound biosynthetic process"
## "regulation of intrinsic apoptotic signaling pathway"
## "iron-sulfur cluster assembly"
## "positive regulation of actin filament depolymerization"
## "response to copper ion"
## "cellular response to superoxide"
## "microglial cell activation"
## "translational elongation"
## "negative regulation of protein processing"
## "phagosome acidification"
## "lipid metabolic process"
## "L-serine metabolic process"
## "interleukin-12-mediated signaling pathway"
## "positive regulation of endoplasmic reticulum calcium ion concentration"
## "acetate biosynthetic process"
## "acetyl-CoA biosynthetic process from acetate"
## "propionate biosynthetic process"
## "3-keto-sphinganine metabolic process"

```

```

##      "maintenance of protein location in mitochondrion"
##      "viral RNA genome packaging"
##      "positive regulation of complement activation"
##      "aminoacyl-tRNA metabolism involved in translational fidelity"
##      "ornithine catabolic process"
##      "ammonia homeostasis"
##      "glucose catabolic process"
##      "pyrimidine nucleotide metabolic process"
##      "lactate biosynthetic process from pyruvate"
##      "cysteine biosynthetic process via cystathionine"
##      "regulation of ferrochelatase activity"
##      "Golgi to transport vesicle transport"
##      "synaptic vesicle budding"
##      "lysosomal membrane organization"
##      "mitotic cleavage furrow ingression"
##      "vesicle-mediated transport"
##      "response to interferon-gamma"
##      "glycogen biosynthetic process"
##      "positive regulation of mitochondrial electron transport, NADH to ubiquinone"
##      "negative regulation of hydrogen peroxide-induced neuron intrinsic apoptotic signal"
##      "dolichol metabolic process"
##      "carnitine biosynthetic process"
##      "positive regulation of inositol phosphate biosynthetic process"
##      "tRNA processing"
##      "protein mannosylation"
##      "positive regulation of catalytic activity"
##      "positive regulation of autophagy of mitochondrion"
##      "sodium ion transport"
##      "cysteine biosynthetic process"
##      "response to ether"
##      "pore complex assembly"
##      "protein localization to endoplasmic reticulum"
##      "positive regulation of viral process"
##      "protein localization to mitochondrion"
##      "UDP-glucose catabolic process"
##      "regulation of locomotion"
##      "cellular response to copper ion"
##      "positive regulation of lyase activity"
##      "positive regulation of succinate dehydrogenase activity"
##      "positive regulation of aconitate hydratase activity"
##      "heart contraction"
##      "cytoskeleton-dependent intracellular transport"
##      "amyloid precursor protein catabolic process"
##      "nucleus accumbens development"
##      "phagosome maturation"
##      "adhesion of symbiont to host"
##      "Golgi calcium ion transport"
##      "medium-chain fatty acid catabolic process"
##      "spindle assembly involved in female meiosis"
##      "regulation of resting membrane potential"
##      "anaerobic respiration"
##      "cysteine biosynthetic process from serine"
##      "proteolysis involved in cellular protein catabolic process"
##      "protein ADP-ribosylation"

```

```

## "carnitine metabolic process, CoA-linked"
## "negative regulation of histone H2A K63-linked ubiquitination"
## "dendritic spine organization"
## "protein folding in endoplasmic reticulum"
## "olfactory pit development"
## "pentose-phosphate shunt"
## "midgut development"
## "positive regulation of mitochondrial membrane permeability involved in apoptotic p
## "brown fat cell differentiation"
## "methionine catabolic process"
## "olfactory bulb mitral cell layer development"
## "endoplasmic reticulum calcium ion homeostasis"
## "positive regulation of ATP biosynthetic process"
## "5-phosphoribose 1-diphosphate biosynthetic process"
## "glutamate catabolic process to aspartate"
## "glutamate catabolic process to 2-oxoglutarate"
## "lactate oxidation"
## "carnitine shuttle"
## "S-adenosylhomocysteine catabolic process"
## "homocysteine biosynthetic process"
## "aspartate catabolic process"
## "aspartate biosynthetic process"
## "positive regulation of sodium ion transmembrane transport"
## "glucose import"
## "cellular hypotonic response"
## "L-aspartate transmembrane transport"
## "response to biotin"
## "tangential migration from the subventricular zone to the olfactory bulb"
## "positive regulation of axon guidance"
## "positive regulation of transforming growth factor beta2 production"
## "synaptic vesicle endocytosis"
## "hydrogen sulfide biosynthetic process"
## "retinoic acid biosynthetic process"
## "negative regulation of glial cell migration"
## "negative regulation of matrix metalloproteinase secretion"
## "positive regulation of osteoclast development"
## "regulation of cell death"
## "optic cup morphogenesis involved in camera-type eye development"
## "circadian sleep/wake cycle"
## "determination of digestive tract left/right asymmetry"
## "positive regulation of cellular metabolic process"
## "response to iron ion"
## "proteasome assembly"
## "uncoating of virus"
## "removal of nonhomologous ends"
## "regulation of phospholipid metabolic process"
## "actin-myosin filament sliding"
## "response to steroid hormone"
## "aspartate metabolic process"
## "response to platinum ion"
## "regulation of lung blood pressure"
## "response to inorganic substance"
## "neuromuscular process controlling posture"
## "fumarate metabolic process"

```

```

## "L-kynurenine metabolic process"
## "D-gluconate metabolic process"
## "purine ribonucleoside monophosphate biosynthetic process"
## "respiratory burst"
## "homocysteine metabolic process"
## "protoporphyrinogen IX metabolic process"
## "negative regulation of double-strand break repair"
## "ethanol catabolic process"
## "positive regulation of sequestering of calcium ion"
## "Cajal-Retzius cell differentiation"
## "positive regulation of coagulation"
## "negative regulation of core promoter binding"
## "adenine salvage"
## "leucyl-tRNA aminoacylation"
## "GMP biosynthetic process"
## "response to antipsychotic drug"
## "release of cytochrome c from mitochondria"
## "cellular response to heat"
## "cellular heat acclimation"
## "regulation of phospholipid catabolic process"
## "regulation of phospholipid biosynthetic process"
## "protein deglutathionylation"
## "glycine metabolic process"
## "isoprenoid biosynthetic process"
## "response to organic substance"
## "protein maturation by iron-sulfur cluster transfer"
## "response to insecticide"
## "determination of bilateral symmetry"
## "retinoic acid receptor signaling pathway involved in somitogenesis"
## "negative regulation of endoplasmic reticulum stress-induced intrinsic apoptotic s
## "response to water deprivation"
## "glutamate biosynthetic process"
## "arginine biosynthetic process"
## "lymphocyte proliferation"
## "selenium compound metabolic process"
## "vacuolar transport"
## "regulation of reactive oxygen species metabolic process"
## "amino acid transmembrane transport"
## "cellular response to potassium ion"
## "short-chain fatty acid biosynthetic process"
## "regulation of myotube differentiation"
## "positive regulation of late endosome to lysosome transport"
## "regulation of chaperone-mediated autophagy"
## "NADPH regeneration"
## "nucleoside metabolic process"
## "adenine biosynthetic process"
## "ketone body biosynthetic process"
## "positive regulation of fast-twitch skeletal muscle fiber contraction"
## "NADP biosynthetic process"
## "positive regulation of PERK-mediated unfolded protein response"
## "regulation of Arp2/3 complex-mediated actin nucleation"
## "positive regulation of RNA polymerase II transcriptional preinitiation complex as
## "positive regulation of cristae formation"
## "positive regulation of free ubiquitin chain polymerization"

```

```

##      "very-low-density lipoprotein particle assembly"
##      "regulation of proton-transporting ATPase activity, rotational mechanism"
##      "glucose transmembrane transport"
##      "positive regulation of nucleotide-binding oligomerization domain containing 2 sig
##      "choline transport"
##      "detection of glucose"
##      "endocardial cushion morphogenesis"
##      "meiotic mismatch repair"
##      "activation of meiosis involved in egg activation"
##      "regulation of fertilization"
##      "negative regulation of monocyte extravasation"
##      "positive regulation of CD24 biosynthetic process"
##      "morphogenesis of embryonic epithelium"
##      "positive regulation of autophagosome maturation"
##      "axonogenesis involved in innervation"
##      "pentose biosynthetic process"
##      "positive regulation of ER to Golgi vesicle-mediated transport"
##      "negative regulation by host of viral genome replication"
##      "activation of protein kinase A activity"
##      "negative regulation of transcription by RNA polymerase III"
##      "angiotensin maturation"
##      "skeletal muscle tissue regeneration"
##      "positive regulation of cardiac muscle myoblast proliferation"
##      "response to zinc ion"
##      "ribonucleoside monophosphate biosynthetic process"
##      "sphingolipid catabolic process"
##      "inhibition of cysteine-type endopeptidase activity involved in apoptotic process"
##      "xylulose biosynthetic process"
##      "regulation of mitochondrial membrane permeability involved in programmed necrotic
##      "carboxylic acid metabolic process"
##      "cofactor transport"
##      "potassium ion transport"
##      "purine-containing compound salvage"
##      "branched-chain amino acid biosynthetic process"
##      "leucine biosynthetic process"
##      "valine biosynthetic process"
##      "positive regulation of inclusion body assembly"
##      "plasma membrane fusion"
##      "eye pigmentation"
##      "response to aluminum ion"
##      "glyoxylate metabolic process"
##      "negative regulation of endoplasmic reticulum calcium ion concentration"
##      "synaptic vesicle transport"
##      "response to low light intensity stimulus"
##      "response to tellurium ion"
##      "CDP-choline pathway"
##      "copper ion transport"
##      "energy reserve metabolic process"
##      "cellular aldehyde metabolic process"
##      "iron import into the mitochondrion"
##      "phosphate ion transmembrane transport"
##      "maintenance of DNA repeat elements"
##      "COPII-coated vesicle budding"
##      "Golgi calcium ion homeostasis"

```

```

## "inositol biosynthetic process"
## "phosphorelay signal transduction system"
## "replication fork arrest"
## "head morphogenesis"
## "positive regulation of L-glutamate import across plasma membrane"
## "C21-steroid hormone biosynthetic process"
## "mitochondrial fusion"
## "positive regulation by host of viral process"
## "regulation of necrotic cell death"
## "positive regulation of acrosome reaction"
## "excretion"
## "deoxyribonucleoside triphosphate metabolic process"
## "regulation of protein catabolic process"
## "9-cis-retinoic acid biosynthetic process"
## "medium-chain fatty acid biosynthetic process"
## "norepinephrine-epinephrine-mediated vasodilation involved in regulation of system"
## "heat generation"
## "positive regulation by organism of apoptotic process in other organism involved in"
## "neuron-neuron synaptic transmission"
## "lactation"
## "response to manganese ion"
## "protein catabolic process in the vacuole"
## "negative regulation of smooth muscle contraction"
## "protein peptidyl-prolyl isomerization"
## "pentose-phosphate shunt, non-oxidative branch"
## "peptidyl-cysteine S-trans-nitrosylation"
## "response to interleukin-15"
## "regulation of mitochondrion organization"
## "positive regulation of protein serine/threonine kinase activity"
## "cellular response to alkaloid"
## "positive regulation of protein secretion"
## "pentose-phosphate shunt, oxidative branch"
## "homocysteine catabolic process"
## "skeletal muscle fiber development"
## "response to lithium ion"
## "ER-nucleus signaling pathway"
## "calcium ion transport from cytosol to endoplasmic reticulum"
## "calcium ion import into sarcoplasmic reticulum"
## "negative regulation of cAMP-dependent protein kinase activity"
## "choline metabolic process"
## "protein maturation"
## "regulation of ubiquinone biosynthetic process"
## "lysine catabolic process"
## "intracellular distribution of mitochondria"
## "protoporphyrinogen IX biosynthetic process"
## "mRNA catabolic process"
## "cellular response to nitrogen starvation"
## "mitochondrial DNA replication"
## "proteolysis"
## "SNARE complex disassembly"
## "dATP biosynthetic process"
## "cellular response to potassium ion starvation"
## "regulation of Golgi inheritance"
## "B cell proliferation"

```

```

##      "glycerol metabolic process"
##      "fatty acid transport"
##      "polyamine homeostasis"
##      "postsynaptic actin cytoskeleton organization"
##      "sucrose biosynthetic process"
##      "Harderian gland development"
##      "malate-aspartate shuttle"
##      "regulation of cardiac conduction"
##      "behavioral response to formalin induced pain"
##      "malonyl-CoA biosynthetic process"
##      "liver development"
##      "regulation of small GTPase mediated signal transduction"
##      "mitochondrial respiratory chain complex assembly"
##      "negative regulation of cell volume"
##      "macroautophagy"
##      "positive regulation of telomere maintenance via telomerase"
##      "chronic inflammatory response to antigenic stimulus"
##      "defense response to fungus"
##      "negative regulation of necroptotic process"
##      "vesicle transport along microtubule"
##      "synaptic vesicle targeting"
##      "response to nicotine"
##      "positive regulation of oxidative stress-induced intrinsic apoptotic signaling pathway"
##      "programmed cell death involved in cell development"
##      "nucleobase-containing compound metabolic process"
##      "mitochondrial outer membrane permeabilization involved in programmed cell death"
##      "necroptotic process"
##      "positive regulation of cytokine-mediated signaling pathway"
##      "cellular glucuronidation"
##      "isoleucine catabolic process"
##      "neuronal action potential propagation"
##      "glycolytic process through fructose-6-phosphate"
##      "glycolysis from storage polysaccharide through glucose-1-phosphate"
##      "L-ascorbic acid biosynthetic process"
##      "NAD metabolic process"
##      "response to osmotic stress"
##      "cellular potassium ion homeostasis"
##      "oxidation-dependent protein catabolic process"
##      "negative regulation of oxidative phosphorylation uncoupler activity"
##      "regulation of retrograde trans-synaptic signaling by endocannabinoid"
##      "xenobiotic catabolic process"
##      "carbamoyl phosphate biosynthetic process"
##      "'de novo' UMP biosynthetic process"
##      "pyrimidine nucleoside biosynthetic process"
##      "box H/ACA snoRNP assembly"
##      "valyl-tRNA aminoacylation"
##      "late endosomal microautophagy"
##      "smooth muscle contraction involved in micturition"
##      "positive regulation of cilium assembly"
##      "autophagosome assembly"
##      "hydrogen peroxide biosynthetic process"
##      "positive regulation of microtubule nucleation"
##      "positive regulation of mitochondrial calcium ion concentration"
##      "regulation of amyloid precursor protein catabolic process"

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## "positive regulation of endoplasmic reticulum tubular network organization"
## "negative regulation of establishment of protein localization to mitochondrion"
## "cardiac septum morphogenesis"
## "proline biosynthetic process"
## "micturition"
## "negative regulation of protein autoubiquitination"
## "peptidyl-histidine phosphorylation"
## "regulation of endothelial cell proliferation"
## "response to mycotoxin"
## "magnesium ion transport"
## "transsulfuration"
## "determination of pancreatic left/right asymmetry"
## "phospholipid biosynthetic process"
## "phosphate-containing compound metabolic process"
## "response to redox state"
## "negative regulation of DNA damage response, signal transduction by p53 class medi
## "positive regulation of calcium-transporting ATPase activity"
## "amelogenesis"
## "glutamyl-tRNA aminoacylation"
## "tRNA aminoacylation for mitochondrial protein translation"
## "regulation of hydrogen peroxide-induced cell death"
## "spermidine biosynthetic process"
## "response to purine-containing compound"
## "mitochondrial transport"
## "face development"
## "polyamine metabolic process"
## "positive regulation of programmed cell death"
## "regulation of calcium-mediated signaling"
## "neutral amino acid transport"
## "positive regulation of cAMP-dependent protein kinase activity"
## "response to psychosocial stress"
## "sperm capacitation"
## "relaxation of skeletal muscle"
## "'de novo' IMP biosynthetic process"
## "cardiovascular system development"
## "tetrahydrofolate metabolic process"
## "regulation of DNA-binding transcription factor activity"
## "positive regulation of androgen receptor activity"
## "negative regulation of release of sequestered calcium ion into cytosol"
## "purine ribonucleoside salvage"
## "glutamate catabolic process"
## "positive regulation of AMPA receptor activity"
## "response to methylmercury"
## "antigen processing and presentation"
## "regulation of lysosomal lumen pH"
## "response to epidermal growth factor"
## "negative regulation of RNA-directed 5'-3' RNA polymerase activity"
## "response to transition metal nanoparticle"
## "positive regulation of IRE1-mediated unfolded protein response"
## "protein transport"
## "response to cortisol"
## "neural fold formation"
## "multicellular organism aging"
## "acetyl-CoA biosynthetic process"

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## "response to cAMP"
## "vascular smooth muscle contraction"
## "regulation of synaptic vesicle transport"
## "establishment of protein localization to mitochondrion"
## "cardiac neural crest cell development involved in heart development"
## "TORC2 signaling"
## "cellular response to interferon-beta"
## "activation of transmembrane receptor protein tyrosine kinase activity"
## "positive regulation of cellular glucuronidation"
## "killing of cells of other organism"
## "regulation of cellular pH"
## "positive regulation of endoribonuclease activity"
## "somatic recombination of immunoglobulin gene segments"
## "glyoxylate catabolic process"
## "positive regulation of mucus secretion"
## "mechanoreceptor differentiation"
## "tetrahydrofolate interconversion"
## "protein retention in Golgi apparatus"
## "determination of left/right asymmetry in nervous system"
## "mitochondrial calcium ion homeostasis"
## "ion transport"
## "regulation of cellular response to oxidative stress"
## "ornithine metabolic process"
## "positive regulation of secretion"
## "positive regulation of vascular associated smooth muscle cell apoptotic process"
## "negative regulation of MDA-5 signaling pathway"
## "positive regulation of macrophage activation"
## "4-hydroxyproline metabolic process"
## "righting reflex"
## "vitamin A metabolic process"
## "negative regulation of protein homodimerization activity"
## "skeletal muscle thin filament assembly"
## "cell wall mannoprotein biosynthetic process"
## "mannose to fructose-6-phosphate metabolic process"
## "regulation of protein complex stability"
## "autophagosome maturation"
## "atrioventricular valve morphogenesis"
## "cellular response to manganese ion"
## "creatinine metabolic process"
## "mitochondrion localization"
## "glycolate catabolic process"
## "regulation of cardiac muscle cell membrane potential"
## "positive regulation of tumor necrosis factor-mediated signaling pathway"
## "regulation of calcium ion-dependent exocytosis of neurotransmitter"
## "regulation of cellular response to hypoxia"
## "negative regulation of protein targeting to membrane"
## "glycine biosynthetic process from serine"
## "cellular response to tetrahydrofolate"
## "pyrimidine nucleobase metabolic process"
## "positive regulation of metanephric cap mesenchymal cell proliferation"
## "aspartate transmembrane transport"
## "4-hydroxyproline catabolic process"
## "bradykinin catabolic process"
## "creatine metabolic process"

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## "cellular response to puromycin"
## "AMPA glutamate receptor clustering"
## "positive regulation of phosphatidylcholine biosynthetic process"
## "positive regulation of mitotic recombination"
## "peptide catabolic process"
## "skeletal muscle fiber adaptation"
## "sulfate transmembrane transport"
## "ribosomal protein import into nucleus"
## "negative regulation of proteasomal protein catabolic process"
## "early endosome to late endosome transport"
## "succinyl-CoA pathway"
## "serine family amino acid catabolic process"
## "2-oxobutyrate biosynthetic process"
## "Sertoli cell development"
## "response to ethanol"
## "daunorubicin metabolic process"
## "doxorubicin metabolic process"
## "regulation of IRE1-mediated unfolded protein response"
## "purine nucleotide metabolic process"
## "response to hydrostatic pressure"
## "regulation of intracellular pH"
## "protein import into peroxisome matrix"
## "metabolic process"
## "negative regulation of male germ cell proliferation"
## "positive regulation of hydrogen peroxide-mediated programmed cell death"
## "purine nucleobase biosynthetic process"
## "Golgi reassembly"
## "regulation of epidermis development"
## "negative regulation of hypoxia-induced intrinsic apoptotic signaling pathway"
## "diadenosine tetraphosphate biosynthetic process"
## "amyloid-beta formation"
## "progesterone metabolic process"
## "locomotory exploration behavior"
## "RNA stabilization"
## "oxygen homeostasis"
## "cellular amino acid catabolic process"
## "response to vitamin E"
## "intracellular protein transport"
## "dTMP biosynthetic process"
## "tetrahydrobiopterin biosynthetic process"
## "protein targeting to lysosome involved in chaperone-mediated autophagy"
## "olfactory nerve development"
## "regulation of acid-sensing ion channel activity"
## "negative regulation of supramolecular fiber organization"
## "regulation of protein import"
## "chaperone-mediated autophagy translocation complex disassembly"
## "slow axonal transport"
## "positive regulation of interleukin-12 production"
## "fibroblast apoptotic process"
## "phospholipid homeostasis"
## "positive regulation of endocytosis"
## "positive regulation of GTP binding"
## "regulation of transcription initiation from RNA polymerase II promoter"
## "negative regulation of ion transmembrane transport"

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##      "regulation of nucleotide-binding oligomerization domain containing signaling pathw
##      "response to amine"
##      "protein O-linked mannosylation"
##      "D-serine biosynthetic process"
##      "vascular transport"
##      "milk ejection reflex"
##      "negative regulation of insulin secretion"
##      "regulation of protein folding in endoplasmic reticulum"
##      "stress response to metal ion"
##      "regulation of ATF6-mediated unfolded protein response"
##      "regulation of PERK-mediated unfolded protein response"
##      "autophagy of mitochondrion"
##      "nucleosome assembly"
##      "central nervous system myelin formation"
##      "protein K27-linked deubiquitination"
##      "response to type I interferon"
##      "epithelial cell differentiation"
##      "response to methamphetamine hydrochloride"
##      "Notch receptor processing, ligand-dependent"
##      "regulation of cytokine secretion involved in immune response"
##      "atrial ventricular junction remodeling"
##      "positive regulation of cell communication by chemical coupling"
##      "positive regulation of telomerase activity"
##      "chromatin silencing"
##      "regulation of synapse organization"
##      "positive regulation of monocyte differentiation"
##      "enzyme active site formation via L-cysteine sulfinic acid"
##      "cellular response to glyoxal"
##      "peptidyl-cysteine deglycation"
##      "peptidyl-arginine deglycation"
##      "peptidyl-lysine deglycation"
##      "protein deglycation, glyoxal removal"
##      "protein deglycation, methylglyoxal removal"
##      "glutathione deglycation"
##      "regulation of TRAIL receptor biosynthetic process"
##      "glycolate biosynthetic process"
##      "detoxification of mercury ion"
##      "guanine deglycation"
##      "guanine deglycation, methylglyoxal removal"
##      "guanine deglycation, glyoxal removal"
##      "regulation of supramolecular fiber organization"
##      "negative regulation of death-inducing signaling complex assembly"
##      "negative regulation of TRAIL-activated apoptotic signaling pathway"
##      "positive regulation of pyrroline-5-carboxylate reductase activity"
##      "positive regulation of tyrosine 3-monooxygenase activity"
##      "glyoxal metabolic process"
##      "positive regulation of L-dopa biosynthetic process"
##      "positive regulation of L-dopa decarboxylase activity"
##      "positive regulation of oxidative phosphorylation uncoupler activity"
##      "D-serine metabolic process"
##      "peroxisome organization"
##      "diet induced thermogenesis"
##      "positive regulation of interleukin-10 production"
##      "postsynaptic neurotransmitter receptor diffusion trapping"

```

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##      "ureter maturation"
##      "C21-steroid hormone metabolic process"
##      "positive regulation of interleukin-8 production"
##      "retrograde vesicle-mediated transport, Golgi to ER"
##      "maintenance of protein localization in endoplasmic reticulum"
##      "Mo-molybdopterin cofactor biosynthetic process"
##      "leading edge cell differentiation"
##      "phosphatidylcholine catabolic process"
##      "positive regulation of pinocytosis"
##      "cell communication by electrical coupling involved in cardiac conduction"
##      "positive regulation of Wnt signaling pathway"
##      "TRAM-dependent toll-like receptor 4 signaling pathway"
##      "regulation of protein ubiquitination"
##      "embryonic eye morphogenesis"
##      "protein insertion into mitochondrial membrane"
##      "positive regulation of calcium ion-dependent exocytosis"
##      "regulation of stress-activated MAPK cascade"
##      "regulation of T cell differentiation in thymus"
##      "negative regulation of transcription from RNA polymerase II promoter in response"
##      "positive regulation of striated muscle tissue development"
##      "negative regulation of hydrogen peroxide-induced cell death"
##      "neural plate mediolateral regionalization"
##      "paraxial mesoderm structural organization"
##      "positive regulation of cardiac ventricle development"
##      "fibrous ring of heart morphogenesis"
##      "regulation of neural crest cell differentiation"
##      "UMP biosynthetic process"
##      "chondrocyte hypertrophy"
##      "positive regulation of proteasomal ubiquitin-dependent protein catabolic process"
##      "chaperone-mediated protein transport involved in chaperone-mediated autophagy"
##      "glycerol biosynthetic process"
##      "anterograde axonal transport of mitochondrion"
##      "otolith development"
##      "ketone body catabolic process"
##      "negative regulation of programmed cell death"
##      "negative regulation of natural killer cell differentiation involved in immune response"
##      "growth of symbiont in host"
##      "calcium ion import"
##      "cellular response to arsenic-containing substance"
##      "negative regulation of cytoplasmic translation"
##      "I-kappaB phosphorylation"
##      "embryonic camera-type eye development"
##      "epididymis development"
##      "response to organic cyclic compound"
##      "cell-matrix adhesion involved in amoeboid cell migration"
##      "protein localization to cilium"
##      "male meiosis I"
##      "maternal placenta development"
##      "amyloid fibril formation"
##      "B cell negative selection"
##      "aspartyl-tRNA aminoacylation"
##      "blood vessel development"
##      "oxygen transport"
##      "regulation of cardiac muscle cell apoptotic process"

```

```

## "leukocyte tethering or rolling"
## "glycine biosynthetic process, by transamination of glyoxylate"
## "actin filament severing"
## "negative regulation of protein dephosphorylation"
## "steroid biosynthetic process"
## "Notch receptor processing"
## "innate immune response in mucosa"
## "positive regulation of apoptotic DNA fragmentation"
## "negative regulation of IRE1-mediated unfolded protein response"
## "cellular response to jasmonic acid stimulus"
## "calcium ion transmembrane transport"
## "regulation of protein transport"
## "xenobiotic metabolic process"
## "regulation of RIG-I signaling pathway"
## "peptidoglycan catabolic process"
## "oxalic acid secretion"
## "interaction with symbiont"
## "negative regulation of ryanodine-sensitive calcium-release channel activity"
## "pyrimidine dimer repair"
## "cerebellum development"
## "Golgi organization"
## "positive regulation of peptidase activity"
## "negative regulation of cholesterol biosynthetic process"
## "histidyl-tRNA aminoacylation"
## "response to nutrient"
## "positive regulation of axon regeneration"
## "valine metabolic process"
## "negative regulation of neuron apoptotic process"
## "negative regulation of hematopoietic stem cell differentiation"
## "geranyl diphosphate biosynthetic process"
## "farnesyl diphosphate biosynthetic process"
## "neurotransmitter receptor localization to postsynaptic specialization membrane"
## "protein heterooligomerization"
## "negative regulation of transcription from RNA polymerase II promoter in response"
## "clathrin-dependent extracellular exosome endocytosis"
## "tryptophan catabolic process"
## "glycogen metabolic process"
## "response to axon injury"
## "peptidyl-arginine methylation"
## "'de novo' NAD biosynthetic process from aspartate"
## "response to antibiotic"
## "oxaloacetate(2-) transmembrane transport"
## "xenobiotic glucuronidation"
## "methylglyoxal metabolic process"
## "regulation of protein tyrosine kinase activity"
## "flavonoid glucuronidation"
## "dicarboxylic acid transport"
## "IRE1-mediated unfolded protein response"
## "negative regulation of apolipoprotein binding"
## "response to high light intensity"
## "polyamine biosynthetic process"
## "cytosolic transport"
## "protein arginylation"
## "cellular response to nicotine"

```

```

## "cardiac neuron differentiation"
## "protein targeting to lysosome"
## "chaperone-mediated protein folding"
## "negative regulation of protein autophosphorylation"
## "protein K63-linked deubiquitination"
## "response to biotic stimulus"
## "drug metabolic process"
## "cellular response to cycloheximide"
## "regulation of removal of superoxide radicals"
## "intrinsic apoptotic signaling pathway in response to hydrogen peroxide"
## "negative regulation of oxidoreductase activity"
## "positive regulation of interferon-alpha production"
## "regulation of NADP metabolic process"
## "cerebellar granular layer development"
## "growth plate cartilage chondrocyte differentiation"
## "rRNA import into mitochondrion"
## "kynurenine metabolic process"
## "thiosulfate transport"
## "oxaloacetate transport"
## "malate transmembrane transport"
## "positive regulation of superoxide dismutase activity"
## "snoRNA guided rRNA pseudouridine synthesis"
## "regulation of cell cycle G1/S phase transition"
## "positive regulation of immunoglobulin secretion"
## "regulation of membrane potential"
## "development of secondary male sexual characteristics"
## "mast cell migration"
## "succinate transmembrane transport"
## "positive regulation of flagellated sperm motility"
## "lysobisphosphatidic acid metabolic process"
## "metanephric glomerular visceral epithelial cell development"
## "response to glucose"
## "actin filament network formation"
## "protein localization to endoplasmic reticulum exit site"
## "striatum development"
## "superoxide anion generation"
## "ceramide metabolic process"
## "negative regulation of mitochondrial membrane permeability involved in apoptotic p
## "regulation of receptor internalization"
## "negative regulation of bone development"
## "negative regulation of calcium-dependent ATPase activity"
## "negative regulation of DNA catabolic process"
## "positive regulation of dUTP diphosphatase activity"
## "negative regulation of leucine-tRNA ligase activity"
## "L-glutamate transmembrane transport"
## "retrograde transport, endosome to Golgi"
## "regulation of cysteine-type endopeptidase activity"
## "response to interferon-beta"
## "regulation of phosphatidylinositol 3-kinase signaling"
## "mitochondrial fission"
## "killing by host of symbiont cells"
## "modulation by host of viral transcription"
## "positive regulation of norepinephrine uptake"
## "cellular response to cytochalasin B"

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##      "lysyl-tRNA aminoacylation"
##      "cellular response to starvation"
##      "basophil activation involved in immune response"
##      "mesendoderm development"
##      "cellular response to glucagon stimulus"
##      "argininosuccinate metabolic process"
##      "purine nucleotide biosynthetic process"
##      "negative regulation of RNA polymerase II regulatory region sequence-specific DNA b
##      "cellular response to ammonium ion"
##      "synaptic target recognition"
##      "spermatid differentiation"
##      "steroid metabolic process"
##      "cellular response to leukemia inhibitory factor"
##      "peptide amidation"
##      "regulation of dendritic spine morphogenesis"
##      "cellular response to oleic acid"
##      "mitochondrial membrane fusion"
##      "folic acid metabolic process"
##      "negative regulation of glial cell proliferation"
##      "negative regulation of RNA biosynthetic process"
##      "GPI anchor biosynthetic process"
##      "L-serine biosynthetic process"
##      "positive regulation of lipid kinase activity"
##      "regulation of activation-induced cell death of T cells"
##      "regulation of CD8-positive, alpha-beta cytotoxic T cell extravasation"
##      "protein-FAD linkage"
##      "triglyceride biosynthetic process"
##      "inner ear morphogenesis"
##      "positive regulation of synaptic vesicle endocytosis"
##      "peptidyl-lysine modification to peptidyl-hypusine"
##      "response to 3,3',5-triiodo-L-thyronine"
##      "cerebellar Purkinje cell differentiation"
##      "post-embryonic animal organ development"
##      "cell activation involved in immune response"
##      "protein localization to endoplasmic reticulum tubular network"
##      "response to cobalamin"
##      "tRNA nucleoside ribose methylation"
##      "negative regulation of erythrocyte differentiation"
##      "cellular glucose homeostasis"
##      "response to ischemia"
##      "negative regulation of receptor internalization"
##      "RNA-dependent DNA biosynthetic process"
##      "cilium movement involved in cell motility"
##      "scaRNA localization to Cajal body"
##      "development of secondary female sexual characteristics"
##      "cellular response to interleukin-4"
##      "antigen processing and presentation of endogenous antigen"
##      "oocyte maturation"
##      "glutaminyl-tRNA aminoacylation"
##      "renal water homeostasis"
##      "mRNA cleavage involved in gene silencing by miRNA"
##      "protein depalmitoylation"
##      "diapedesis"
##      "arginine catabolic process to ornithine"

```

```

## "positive regulation of sodium ion export across plasma membrane"
## "translational termination"
## "reactive oxygen species biosynthetic process"
## "allantoin metabolic process"
## "isoleucine metabolic process"
## "cellular ketone metabolic process"
## "trachea formation"
## "negative regulation of double-stranded telomeric DNA binding"
## "phenylalanyl-tRNA aminoacylation"
## "negative regulation of endoribonuclease activity"
## "placenta development"
## "glycerophospholipid catabolic process"
## "amino acid transport"
## "cerebellar granule cell differentiation"
## "cellular response to reactive oxygen species"
## "cerebellum structural organization"
## "protein targeting to ER"
## "nose morphogenesis"
## "myeloid cell development"
## "response to extracellular stimulus"
## "positive regulation of protein insertion into mitochondrial membrane involved in a
## "regulation of epithelial cell differentiation"
## "nitrobenzene metabolic process"
## "C-terminal protein lipidation"
## "mitochondrial proton-transporting ATP synthase complex assembly"
## "negative regulation of protein localization to nucleolus"
## "Schwann cell proliferation"
## "negative regulation of fatty acid biosynthetic process"
## "pseudouridine synthesis"
## "glycine betaine transport"
## "alanine transport"
## "nerve growth factor signaling pathway"
## "regulation of Rho protein signal transduction"
## "positive regulation of retrograde protein transport, ER to cytosol"
## "purine nucleobase metabolic process"
## "regulation of synapse maturation"
## "intermediate-density lipoprotein particle remodeling"
## "anterograde dendritic transport of mitochondrion"
## "cellular response to tunicamycin"
## "ATF6-mediated unfolded protein response"
## "cellular response to topologically incorrect protein"
## "polyubiquitinated misfolded protein transport"
## "Hsp90 deacetylation"
## "lung morphogenesis"
## "chaperone-mediated autophagy"
## "negative regulation of reactive oxygen species metabolic process"
## "L-ascorbic acid metabolic process"
## "lactate biosynthetic process"
## "regulation of autophagy of mitochondrion"
## "caveolin-mediated endocytosis"
## "ergosterol biosynthetic process"
## "endosome to lysosome transport via multivesicular body sorting pathway"
## "telomerase holoenzyme complex assembly"
## "cellular response to hydrogen sulfide"

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```

##      "cellular response to ATP"
##      "nucleoside monophosphate phosphorylation"
##      "mitochondrial transcription"
##      "epithelial cell proliferation"
##      "nitric oxide biosynthetic process"
##      "cellular response to cadmium ion"
##      "cellular response to organonitrogen compound"
##      "positive regulation of intracellular cholesterol transport"
##      "lipid hydroperoxide transport"
##      "hydrogen peroxide metabolic process"
##      "cellular response to trichostatin A"
##      "protein deubiquitination"
##      "regulation of GTP binding"
##      "regulation of cytoplasmic translational fidelity"
##      "positive regulation of double-strand break repair via homologous recombination"
##      "regulation of protein oligomerization"
##      "aggresome assembly"
##      "protein export from nucleus"
##      "mitochondrial membrane fission"
##      "fatty-acyl-CoA biosynthetic process"
##      "behavioral response to cocaine"
##      "aldehyde catabolic process"
##      "positive regulation of protein kinase A signaling"
##      "positive regulation of phosphatase activity"
##      "peptidyl-diphthamide biosynthetic process from peptidyl-histidine"
##      "protein neddylation"
##      "response to isolation stress"
##      "glomerular mesangial cell development"
##      "peroxisome fission"
##      "dendritic spine development"
##      "platelet morphogenesis"
##      "sensory perception of sound"
##      "establishment or maintenance of transmembrane electrochemical gradient"
##      "cholesterol biosynthetic process"
##      "cytosine metabolic process"
##      "protein N-linked glycosylation via asparagine"
##      "cellular response to amine stimulus"
##      "receptor localization to synapse"
##      "meiotic chromosome movement towards spindle pole"
##      "meiotic cytokinesis"
##      "positive regulation of blood vessel remodeling"
##      "granulocyte colony-stimulating factor signaling pathway"
##      "calcium export from the mitochondrion"
##      "alpha-ketoglutarate transport"
##      "response to electrical stimulus"
##      "negative regulation of flagellated sperm motility"
##      "D-glucuronate catabolic process"
##      "negative regulation of glucocorticoid receptor signaling pathway"
##      "negative regulation of intrinsic apoptotic signaling pathway in response to hydroperoxide"
##      "epithelial cell apoptotic process"
##      "response to phenylpropanoid"
##      "regulation of protein autophosphorylation"
##      "negative regulation of estrogen receptor binding"
##      "neuron apoptotic process"

```

"pyrimidine nucleoside metabolic process"
 ## "mitotic spindle disassembly"
 ## "protein autoprocessing"
 ## "activation-induced cell death of T cells"
 ## "negative regulation of meiotic nuclear division"
 ## "molybdopterin cofactor biosynthetic process"
 ## "positive regulation of Wnt-mediated midbrain dopaminergic neuron differentiation"
 ## "negative regulation of JUN kinase activity"
 ## "negative regulation of cardiac muscle cell apoptotic process"
 ## "tRNA import into mitochondrion"
 ## "mitochondrial outer membrane translocase complex assembly"
 ## "nucleogenesis"
 ## "heart formation"
 ## "negative regulation of transcription from RNA polymerase II promoter in response"
 ## "chronic inflammatory response"
 ## "cGMP-mediated signaling"
 ## "positive regulation of histone deacetylase activity"
 ## "ossification"
 ## "response to muscle inactivity"
 ## "antibacterial humoral response"
 ## "purine ribonucleotide catabolic process"
 ## "bilirubin conjugation"
 ## "protein-containing complex disassembly"
 ## "negative regulation of ripoptosome assembly involved in necroptotic process"
 ## "cellular response to thapsigargin"
 ## "response to flavonoid"
 ## "positive regulation of trophoblast cell migration"
 ## "regulation of dopamine secretion"
 ## "response to oxygen radical"
 ## "aortic valve development"
 ## "pulmonary valve development"
 ## "regulation of kidney size"
 ## "negative regulation of thioredoxin peroxidase activity by peptidyl-threonine phosphorylation"
 ## "Wnt signalosome assembly"
 ## "determination of liver left/right asymmetry"
 ## "'de novo' pyrimidine nucleobase biosynthetic process"
 ## "Golgi vesicle docking"
 ## "formate metabolic process"
 ## "actin filament uncapping"
 ## "dynamin family protein polymerization involved in mitochondrial fission"
 ## "regulation of neuron apoptotic process"
 ## "flavin adenine dinucleotide catabolic process"
 ## "positive regulation of protein K63-linked deubiquitination"
 ## "positive regulation of Lys63-specific deubiquitinase activity"
 ## "behavioral response to pain"
 ## "negative regulation of mitochondrial fusion"
 ## "positive regulation of skeletal muscle contraction by regulation of release of sarcoplasmic calcium"
 ## "negative stranded viral RNA replication"
 ## "arachidonic acid metabolic process"
 ## "regulation of branching morphogenesis of a nerve"
 ## "calcium import into the mitochondrion"
 ## "regulation of retrograde transport, endosome to Golgi"
 ## "positive regulation of NMDA glutamate receptor activity"
 ## "signal transduction by protein phosphorylation"

```

## "pinocytosis"
## "nucleotide metabolic process"
## "protein localization to nuclear pore"
## "mitochondrial ncRNA surveillance"
## "mitochondrial mRNA surveillance"
## "mitochondrial RNA surveillance"
## "calcineurin-NFAT signaling cascade"
## "regulation of neuroblast proliferation"
## "glucosylceramide catabolic process"
## "ureter urothelium development"
## "synaptonemal complex disassembly"
## "positive regulation of necroptotic process"
## "synaptic vesicle recycling via endosome"
## "neurofilament cytoskeleton organization"
## "positive regulation of protein localization to chromosome, telomeric region"
## "regulation of fatty acid oxidation"
## "cellular response to redox state"
## "positive regulation of ubiquitin-specific protease activity"
## "response to clozapine"
## "positive regulation of membrane potential"
## "thymocyte apoptotic process"
## "regulation of T cell mediated cytotoxicity"
## "maintenance of mitochondrion location"
## "cell adhesion molecule production"
## "post-embryonic camera-type eye morphogenesis"
## "protein depolymerization"
## "lipid catabolic process"
## "negative regulation of transforming growth factor beta activation"
## "citrulline metabolic process"
## "mitochondrial protein processing"
## "positive regulation of metalloproteinase activity"
## "cellular detoxification of nitrogen compound"
## "regulation of aerobic respiration"
## "protein-pyridoxal-5-phosphate linkage via peptidyl-N6-pyridoxal phosphate-L-lysine"
## "regulation of potassium ion transport"
## "protein sulfhydration"
## "glyceraldehyde-3-phosphate biosynthetic process"
## "'de novo' L-methionine biosynthetic process"
## "positive regulation of aortic smooth muscle cell differentiation"
## "nail development"
## "cellular response to Thyroid stimulating hormone"
## "regulation of organ growth"
## "peripheral nervous system myelin maintenance"
## "protein-DNA complex disassembly"
## "negative regulation of gluconeogenesis"
## "response to temperature stimulus"
## "negative regulation of reciprocal meiotic recombination"
## "long-chain fatty acid import"
## "chromosome organization"
## "myeloid cell homeostasis"
## "negative regulation of sequestering of calcium ion"
## "negative regulation of chemokine (C-C motif) ligand 4 production"
## "negative regulation of interleukin-17 secretion"
## "negative regulation of activated CD8-positive, alpha-beta T cell apoptotic process"

```

```

## "negative regulation of parkin-mediated stimulation of mitophagy in response to mi
## "regulation of endosome size"
## "regulation of peroxisome organization"
## "positive regulation of potassium ion import"
## "sympathetic nervous system development"
## "negative regulation of complement-dependent cytotoxicity"
## "post-translational protein modification"
## "virion attachment to host cell"
## "cellular response to arsenite ion"
## "synaptic vesicle maturation"
## "protein metabolic process"
## "establishment of protein localization to peroxisome"
## "negative regulation of lipid binding"
## "negative regulation of cell growth"
## "negative regulation of cysteine-type endopeptidase activity involved in apoptotic
## "positive regulation of synaptic vesicle exocytosis"
## "negative regulation of hydrogen peroxide metabolic process"
## "negative regulation of multicellular organism growth"
## "positive regulation of endopeptidase activity"
## "isoleucyl-tRNA aminoacylation"
## "nitrate assimilation"
## "positive regulation of protein import into nucleus, translocation"
## "meiotic gene conversion"
## "negative regulation of protein homotetramerization"
## "positive regulation of endocytic recycling"
## "release of sequestered calcium ion into cytosol by sarcoplasmic reticulum"
## "purine ribonucleotide interconversion"
## "lamellipodium assembly involved in ameboidal cell migration"
## "extension of a leading process involved in cell motility in cerebral cortex radia
## "regulation of toll-like receptor 9 signaling pathway"
## "amyloid precursor protein metabolic process"
## "actomyosin contractile ring contraction"
## "positive regulation of insulin secretion"
## "vesicle uncoating"
## "ESCRT complex disassembly"
## "folic acid-containing compound biosynthetic process"
## "positive regulation of apoptotic process involved in morphogenesis"
## "cerebellar cortex development"
## "negative regulation of extracellular matrix constituent secretion"
## "Peyer's patch development"
## "B cell mediated immunity"
## "positive regulation of ligase activity"
## "cellular response to menadione"
## "nucleus localization"
## "protein localization to synapse"
## "positive regulation of natural killer cell proliferation"
## "endoplasmic reticulum-Golgi intermediate compartment organization"
## "positive regulation of mitochondrial RNA catabolic process"
## "mitochondrial RNA 3'-end processing"
## "positive regulation of muscle contraction"
## "interleukin-8 secretion"
## "response to cocaine"
## "positive regulation of oxidative phosphorylation"
## "peptidyl-cysteine methylation"

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## "heterocycle metabolic process"
## "negative regulation of stress-activated MAPK cascade"
## "DNA metabolic process"
## "lactate metabolic process"
## "intra-Golgi vesicle-mediated transport"
## "negative regulation of short-term synaptic potentiation"
## "farnesol catabolic process"
## "Mullerian duct regression"
## "insulin catabolic process"
## "apoptotic process involved in morphogenesis"
## "peptidyl-arginine methylation, to asymmetrical-dimethyl arginine"
## "negative regulation of monocyte differentiation"
## "regulation of gliogenesis"
## "coumarin catabolic process"
## "phosphocreatine biosynthetic process"
## "negative regulation of cell division"
## "L-phenylalanine catabolic process"
## "endocardial cushion formation"
## "mitochondrion distribution"
## "intrinsic apoptotic signaling pathway"
## "detoxification of copper ion"
## "sphingolipid biosynthetic process"
## "cAMP-mediated signaling"
## "hypoxia-inducible factor-1alpha signaling pathway"
## "positive regulation of lipid biosynthetic process"
## "positive regulation of ribosomal small subunit export from nucleus"
## "negative regulation of RIG-I signaling pathway"
## "positive regulation of cyclin-dependent protein kinase activity"
## "positive regulation of dendritic spine morphogenesis"
## "neurotransmitter uptake"
## "'de novo' posttranslational protein folding"
## "proteasome regulatory particle assembly"
## "citrate transport"
## "heme catabolic process"
## "positive regulation of transcription involved in G2/M transition of mitotic cell"
## "prostaglandin metabolic process"
## "mRNA metabolic process"
## "drug catabolic process"
## "regulation of ossification"
## "ubiquitin-dependent ERAD pathway"
## "transcriptional activation by promoter-enhancer looping"
## "male meiotic nuclear division"
## "contact inhibition"
## "peripheral nervous system axon regeneration"
## "positive regulation of release of cytochrome c from mitochondria"
## "tubulin deacetylation"
## "Golgi to plasma membrane transport"
## "tyrosine catabolic process"
## "skeletal muscle acetylcholine-gated channel clustering"
## "box C/D snoRNP assembly"
## "hydrogen sulfide metabolic process"
## "response to hydroperoxide"
## "hormone catabolic process"
## "negative regulation of protein complex disassembly"

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##      "auditory receptor cell stereocilium organization"
##      "mature ribosome assembly"
##      "protein stabilization"
##      "nucleotide-excision repair involved in interstrand cross-link repair"
##      "activation of MAPKKK activity"
##      "intermediate mesoderm development"
##      "mesangial cell development"
##      "specification of anterior mesonephric tubule identity"
##      "specification of posterior mesonephric tubule identity"
##      "negative regulation of nephron tubule epithelial cell differentiation"
##      "renal vesicle progenitor cell differentiation"
##      "metanephric nephron tubule development"
##      "metanephric glomerulus vasculature development"
##      "metanephric interstitial fibroblast development"
##      "pattern specification involved in metanephros development"
##      "metanephric cap mesenchymal cell proliferation involved in metanephros development"
##      "cellular response to drug"
##      "acetyl-CoA catabolic process"
##      "metanephric proximal convoluted tubule development"
##      "ketone body metabolic process"
##      "propionyl-CoA biosynthetic process"
##      "positive regulation of natural killer cell differentiation"
##      "outer ear morphogenesis"
##      "meiosis I"
##      "response to ketamine"
##      "cellular response to monosodium glutamate"
##      "response to Aroclor 1254"
##      "regulation of hippo signaling"
##      "response to hormone"
##      "rRNA 2'-O-methylation"
##      "folic acid catabolic process"
##      "sarcoplasmic reticulum calcium ion transport"
##      "telomere localization"
##      "microtubule cytoskeleton organization involved in homologous chromosome segregation"
##      "chromosome localization to nuclear envelope involved in homologous chromosome segregation"
##      "positive regulation of acetylcholine metabolic process"
##      "glucocorticoid catabolic process"
##      "regulation of proteolysis"
##      "ether lipid biosynthetic process"
##      "posttranscriptional gene silencing by RNA"
##      "protein localization to perinuclear region of cytoplasm"
##      "regulation of histone H2B conserved C-terminal lysine ubiquitination"
##      "spindle localization"
##      "bone maturation"
##      "regulation of microtubule-based movement"
##      "regulation of lateral mesodermal cell fate specification"
##      "intra-S DNA damage checkpoint"
##      "taurine metabolic process"
##      "tryptophanyl-tRNA aminoacylation"
##      "protoporphyrinogen IX biosynthetic process from glutamate"
##      "positive regulation of transcription initiation from RNA polymerase II promoter"
##      "snRNA import into nucleus"
##      "maintenance of postsynaptic specialization structure"
##      "positive regulation of supramolecular fiber organization"

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##      "regulation of adenylate cyclase activity"
##      "negative regulation of macrophage inflammatory protein 1 alpha production"
##      "response to interleukin-4"
##      "regulation of DNA double-strand break processing"
##      "brainstem development"
##      "olfactory bulb development"
##      "catecholamine biosynthetic process"
##      "desensitization of G protein-coupled receptor signaling pathway by arrestin"
##      "positive regulation of xenophagy"
##      "positive regulation of mitochondrial fission"
##      "regulation of cellular response to heat"
##      "regulation of phosphoprotein phosphatase activity"
##      "negative regulation of GTP binding"
##      "amine metabolic process"
##      "regulation of early endosome to late endosome transport"
##      "transition between fast and slow fiber"
##      "ketone catabolic process"
##      "cellular ketone body metabolic process"
##      "positive regulation of plasminogen activation"
##      "learning"
##      "cellular amino acid metabolic process"
##      "ribonucleoprotein complex assembly"
##      "negative regulation of rRNA processing"
##      "regulation of histone H3-K9 acetylation"
##      "axonemal central apparatus assembly"
##      "asparaginyl-tRNA aminoacylation"
##      "arsenite transport"
##      "negative regulation of guanylate cyclase activity"
##      "endoplasmic reticulum stress-induced pre-emptive quality control"
##      "L-alanine catabolic process"
##      "cellular response to antibiotic"
##      "positive regulation of sodium ion transmembrane transporter activity"
##      "cellular response to calcium ion"
##      "pattern recognition receptor signaling pathway"
##      "detection of chemical stimulus"
##      "positive regulation of protein linear polyubiquitination"
##      "positive regulation of vascular associated smooth muscle cell migration"
##      "positive regulation of erythrocyte differentiation"
##      "retina homeostasis"
##      "positive regulation of long-term synaptic depression"
##      "lactate catabolic process"
##      "endothelium development"
##      "regulation of sodium ion transmembrane transporter activity"
##      "RNA destabilization"
##      "biological_process"
##      "NAD biosynthetic process"
##      "monoterpenoid metabolic process"
##      "regulation of gastrulation"
##      "dihydrofolate metabolic process"
##      "positive regulation of non-canonical Wnt signaling pathway"
##      "flagellated sperm motility"
##      "regulation of inositol 1,4,5-trisphosphate-sensitive calcium-release channel acti
##      "response to oleic acid"
##      "establishment of protein localization"

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##      "establishment of endoplasmic reticulum localization to postsynapse"
##      "selective autophagy"
##      "negative regulation of protein K48-linked deubiquitination"
##      "negative regulation of ubiquitin-specific protease activity"
##      "protein processing"
##      "response to ATP"
##      "regulation of bone remodeling"
##      "positive regulation of protein K48-linked ubiquitination"
##      "glycoprotein catabolic process"
##      "negative regulation of cardiac muscle hypertrophy"
##      "positive regulation of protein targeting to mitochondrion"
##      "mevalonate transport"
##      "behavioral response to nutrient"
##      "regulation of brood size"
##      "response to G1 DNA damage checkpoint signaling"
##      "cellular response to virus"
##      "mitochondrial asparaginyl-tRNA aminoacylation"
##      "negative regulation of interleukin-12 biosynthetic process"
##      "axon regeneration"
##      "cellular response to nutrient"
##      "microvillus assembly"
##      "negative regulation of DNA biosynthetic process"
##      "tRNA-guanine transglycosylation"
##      "GPI anchor metabolic process"
##      "regulation of presynapse assembly"
##      "calcium-mediated signaling using intracellular calcium source"
##      "coenzyme biosynthetic process"
##      "pancreatic juice secretion"
##      "protein dephosphorylation"
##      "female meiotic nuclear division"
##      "type B pancreatic cell development"
##      "chloride transport"
##      "cell junction assembly"
##      "regulation of mitochondrial depolarization"
##      "lens morphogenesis in camera-type eye"
##      "regulation of presynaptic membrane potential"
##      "B cell activation"
##      "insulin metabolic process"
##      "negative regulation of calcium-transporting ATPase activity"
##      "regulation of mitochondrial translation"
##      "arginine metabolic process"
##      "negative regulation of autophagosome assembly"
##      "positive regulation of DNA-templated transcription, initiation"
##      "cellular response to actinomycin D"
##      "negative regulation of oxidative phosphorylation"
##      "establishment of mitochondrion localization by microtubule attachment"
##      "hypoxanthine biosynthetic process"
##      "negative regulation of chemokine (C-C motif) ligand 5 production"
##      "mitochondrial mRNA catabolic process"
##      "pre-miRNA export from nucleus"
##      "relaxation of vascular smooth muscle"
##      "alkaloid catabolic process"
##      "cellular response to dsRNA"
##      "chaperone mediated protein folding independent of cofactor"

```



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##      "regulation of cytoskeleton organization"
##      "pronephric nephron development"
##      "negative regulation of hyaluronan biosynthetic process"
##      "activation of JNKK activity"
##      "regulation of axon regeneration"
##      "response to misfolded protein"
##      "nucleotide-excision repair, DNA incision, 3'-to lesion"
##      "mitochondrion to lysosome transport"
##      "osmosensory signaling pathway"
##      "sex differentiation"
##      "amyloid-beta metabolic process"
##      "negative regulation of trophoblast cell migration"
##      "cellular protein catabolic process"
##      "negative regulation of protein metabolic process"
##      "calcineurin-mediated signaling"
##      "response to lipid hydroperoxide"
##      "plasma membrane lactate transport"
##      "secretory granule localization"
##      "regulation of innate immune response"
##      "regulation of endocytic recycling"
##      "response to selenium ion"
##      "regulation of grooming behavior"
##      "'de novo' actin filament nucleation"
##      "peptidyl-serine autophosphorylation"
##      "hemostasis"
##      "regulation of L-arginine import"
##      "positive regulation of neutrophil mediated killing of fungus"
##      "regulation of atrial cardiac muscle cell membrane depolarization"
##      "hypothalamus development"
##      "response to hypobaric hypoxia"
##      "protein targeting to peroxisome"
##      "neuron recognition"
##      "cellular response to hypoxia"
##      "vocalization behavior"
##      "alanyl-tRNA aminoacylation"
##      "negative regulation of axonogenesis"
##      "negative regulation of immunoglobulin secretion"
##      "response to fungus"
##      "protein glycosylation"
##      "positive regulation of transcription by RNA polymerase I"
##      "regulation of vascular endothelial growth factor signaling pathway"
##      "regulation of ryanodine-sensitive calcium-release channel activity"
##      "microtubule polymerization or depolymerization"
##      "oxalate transport"
##      "response to methylamine"
##      "regulation of natural killer cell apoptotic process"
##      "response to lipoic acid"
##      "regulation of activin receptor signaling pathway"
##      "endothelial cell development"
##      "aggrephagy"
##      "blood vessel remodeling"
##      "positive regulation of NK T cell activation"
##      "alkaloid metabolic process"
##      "cardiac conduction"

```

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## "N-terminal peptidyl-methionine acetylation"
## "phosphatidylserine metabolic process"
## "regulation of fatty acid biosynthetic process"
## "mRNA cleavage involved in gene silencing by siRNA"
## "regulation of necroptotic process"
## "hepatocyte differentiation"
## "cellular response to estrogen stimulus"
## "mitochondrial tRNA 3'-trailer cleavage, endonucleolytic"
## "negative regulation of metallopeptidase activity"
## "apical protein localization"
## "regulation of establishment of protein localization"
## "protein deglycosylation"
## "regulation of endocytosis"
## "regulation of cilium assembly"
## "glutathione biosynthetic process"
## "membrane to membrane docking"
## "myeloid dendritic cell cytokine production"
## "protein retention in ER lumen"
## "proton-transporting ATP synthase complex assembly"
## "autophagosome organization"
## "negative regulation of interleukin-13 secretion"
## "negative regulation of Schwann cell proliferation"
## "coenzyme A biosynthetic process"
## "positive regulation of proteolysis involved in cellular protein catabolic process"
## "retrograde protein transport, ER to cytosol"
## "thiamine transmembrane transport"
## "cellular copper ion homeostasis"
## "negative regulation of mitochondrial fission"
## "sulfate transport"
## "regulation of multivesicular body size"
## "minus-end-directed organelle transport along microtubule"
## "nodal signaling pathway involved in determination of lateral mesoderm left/right axis"
## "tubulin complex assembly"
## "glucosamine catabolic process"
## "regulation of glucose metabolic process"
## "positive regulation of Ras protein signal transduction"
## "positive regulation of T cell activation"
## "lipid localization"
## "positive regulation of mitochondrial DNA replication"
## "stress-induced mitochondrial fusion"
## "clathrin coat assembly"
## "negative regulation of nitric oxide biosynthetic process"
## "positive regulation of mitotic centrosome separation"
## "maintenance of Golgi location"
## "negative regulation of protein localization to centrosome"
## "adrenergic receptor signaling pathway"
## "protein import into mitochondrial outer membrane"
## "positive regulation of RNA biosynthetic process"
## "negative regulation of cellular component movement"
## "limbic system development"
## "negative regulation of steroid metabolic process"
## "regulation of synaptic vesicle cycle"
## "negative regulation of low-density lipoprotein particle receptor binding"
## "negative regulation of receptor-mediated endocytosis involved in cholesterol transport"

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## "negative regulation of catalytic activity"
## "metal ion homeostasis"
## "negative regulation of androgen receptor activity"
## "histone arginine methylation"
## "peroxisome transport along microtubule"
## "protein import into peroxisome matrix, substrate release"
## "synapse organization"
## "positive regulation of transcription involved in G1/S transition of mitotic cell cycle"
## "actin filament reorganization involved in cell cycle"
## "GMP metabolic process"
## "regulation of granulocyte chemotaxis"
## "peptidyl-proline hydroxylation to 4-hydroxy-L-proline"
## "regulation of embryonic cell shape"
## "phosphatidylcholine biosynthetic process"
## "N-acetylglucosamine catabolic process"
## "regulation of oxidative stress-induced intrinsic apoptotic signaling pathway"
## "nuclear envelope reassembly"
## "response to herbicide"
## "locomotion involved in locomotory behavior"
## "copper ion homeostasis"
## "UV protection"
## "detection of bacterium"
## "regulation of activated T cell proliferation"
## "Golgi localization"
## "negative regulation of extrinsic apoptotic signaling pathway in absence of ligand"
## "steroid catabolic process"
## "positive regulation of glycoprotein metabolic process"
## "parkin-mediated stimulation of mitophagy in response to mitochondrial depolarization"
## "negative regulation of creatine transmembrane transporter activity"
## "protein K29-linked deubiquitination"
## "positive regulation of vascular smooth muscle cell proliferation"
## "regulation of cellular protein metabolic process"
## "protein import into peroxisome membrane"
## "negative regulation of protein ubiquitination"
## "RNA import into nucleus"
## "regulation of mitotic sister chromatid separation"
## "positive regulation of heterochromatin assembly"
## "nuclear matrix organization"
## "cellular response to leptin stimulus"
## "organelle organization"
## "regulation of protein targeting to mitochondrion"
## "septin ring assembly"
## "spermine biosynthetic process"
## "CD4-positive, alpha-beta T cell activation"
## "serine family amino acid metabolic process"
## "mononuclear cell migration"
## "DNA catabolic process, endonucleolytic"
## "positive regulation of protein K63-linked ubiquitination"
## "protein transmembrane transport"
## "NLS-bearing protein import into nucleus"
## "glucuronate catabolic process to xylulose 5-phosphate"
## "positive regulation of mitochondrial membrane potential"
## "negative regulation of transcription by competitive promoter binding"
## "regulation of ARF protein signal transduction"

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## "Okazaki fragment processing involved in mitotic DNA replication"
## "modulation of chemical synaptic transmission"
## "mitochondrial outer membrane permeabilization"
## "negative regulation of cardiocyte differentiation"
## "exosomal secretion"
## "cell communication by chemical coupling"
## "production of siRNA involved in RNA interference"
## "mitochondrial ribosome assembly"
## "sarcomere organization"
## "negative regulation of dendrite morphogenesis"
## "stress-activated protein kinase signaling cascade"
## "protein insertion into mitochondrial membrane involved in apoptotic signaling path"
## "regulation of fat cell differentiation"
## "regulation of organelle transport along microtubule"
## "plasminogen activation"
## "lipid homeostasis"
## "response to growth hormone"
## "hemoglobin metabolic process"
## "regulation of postsynaptic density assembly"
## "response to hydroxyisoflavone"
## "depurination"
## "doxorubicin transport"
## "telomerase RNA stabilization"
## "diadenosine polyphosphate catabolic process"
## "diphosphoinositol polyphosphate catabolic process"
## "positive regulation of cytokine secretion involved in immune response"
## "somatic muscle development"
## "phosphatidylinositol biosynthetic process"
## "regulation of phospholipase A2 activity"
## "negative regulation of calcidiol 1-monooxygenase activity"
## "7-methylguanosine RNA capping"
## "ribonucleoprotein complex biogenesis"
## "Rap protein signal transduction"
## "myeloid cell apoptotic process"
## "7-methylguanosine cap hypermethylation"
## "cellular response to anisomycin"
## "melanin biosynthetic process"
## "T cell homeostatic proliferation"
## "endosome to lysosome transport"
## "release of matrix enzymes from mitochondria"
## "positive regulation of developmental pigmentation"
## "B cell receptor apoptotic signaling pathway"
## "positive regulation of dopamine biosynthetic process"
## "cellular response to granulocyte macrophage colony-stimulating factor stimulus"
## "protein K33-linked deubiquitination"
## "positive regulation of autophagy of mitochondrion in response to mitochondrial dep"
## "regulation of neuron maturation"
## "protein quality control for misfolded or incompletely synthesized proteins"
## "regulation of lymphocyte migration"
## "membrane fusion"
## "endoplasmic reticulum unfolded protein response"
## "response to cadmium ion"
## "posttranslational protein targeting to endoplasmic reticulum membrane"
## "regulation of protein complex assembly"

```

```

## "negative regulation of cholesterol transport"
## "ARF protein signal transduction"
## "diphosphoinositol polyphosphate metabolic process"
## "regulation of neurotransmitter receptor transport, endosome to postsynaptic membr
## "diadenosine pentaphosphate catabolic process"
## "diadenosine hexaphosphate catabolic process"
## "adenosine 5'-(hexahydrogen pentaphosphate) catabolic process"
## "cysteine metabolic process"
## "protein homooligomerization"
## "membrane depolarization during action potential"
## "protein homotrimerization"
## "positive regulation of cardiac muscle hypertrophy in response to stress"
## "protein insertion into membrane"
## "posterior mesonephric tubule development"
## "establishment of protein localization to organelle"
## "positive regulation of mitophagy in response to mitochondrial depolarization"
## "mitochondrial pyruvate transmembrane transport"
## "gap junction assembly"
## "translocation of peptides or proteins into host cell cytoplasm"
## "regulation of macrophage apoptotic process"
## "membrane raft organization"
## "modulation by virus of host process"
## "negative regulation of late endosome to lysosome transport"
## "myeloid dendritic cell differentiation"
## "sulfur amino acid catabolic process"
## "valine catabolic process"
## "regulation of sodium ion transport"
## "negative regulation of myeloid leukocyte differentiation"
## "stress granule disassembly"
## "meiotic spindle elongation"
## "cellular response to fibroblast growth factor stimulus"
## "negative regulation of lipid kinase activity"
## "cell communication by electrical coupling"
## "muscle atrophy"
## "benzoate metabolic process"
## "urate metabolic process"
## "negative regulation of quinolinate biosynthetic process"
## "picolinic acid biosynthetic process"
## "regulation of 'de novo' NAD biosynthetic process from tryptophan"
## "mitotic cell cycle arrest"
## "flavone metabolic process"
## "butyrate metabolic process"
## "carnitine transmembrane transport"
## "glycine import into mitochondrion"
## "actin rod assembly"
## "positive regulation of response to DNA damage stimulus"
## "coenzyme A metabolic process"
## "UDP-glucuronic acid transmembrane transport"
## "1-aminocyclopropane-1-carboxylate biosynthetic process"
## "cargo loading into COPII-coated vesicle"
## "animal organ development"
## "negative regulation of homotypic cell-cell adhesion"
## "cerebellar Purkinje cell layer maturation"
## "positive regulation of DNA-dependent DNA replication initiation"

```

```

## "signal transduction involved in intra-S DNA damage checkpoint"
## "cellular response to bisphenol A"
## "pentacyclic triterpenoid metabolic process"
## "heme O biosynthetic process"
## "negative regulation of mitophagy in response to mitochondrial depolarization"
## "GDP metabolic process"
## "alcohol catabolic process"
## "negative regulation of cellular organofluorine metabolic process"
## "thiamine-containing compound metabolic process"
## "cellular response to decreased oxygen levels"
## "arginyl-tRNA aminoacylation"
## "asymmetric neuroblast division"
## "creatine biosynthetic process"
## "protein adenylylation"
## "protein deadenylylation"
## "snRNA (adenine-N6)-methylation"
## "neuronal ion channel clustering"
## "negative regulation of DNA helicase activity"
## "embryonic process involved in female pregnancy"
## "long-term synaptic potentiation"
## "negative regulation of sodium:potassium-exchanging ATPase activity"
## "negative regulation of glucose catabolic process to lactate via pyruvate"
## "regulation of cortisol biosynthetic process"
## "magnesium ion transmembrane transport"
## "nuclear membrane organization"
## "negative regulation of protein localization to plasma membrane"
## "B cell homeostatic proliferation"
## "butyrate catabolic process"
## "regulation of platelet-derived growth factor production"
## "pyrimidine nucleotide-sugar transmembrane transport"
## "response to hyperoxia"
## "carbon tetrachloride metabolic process"
## "benzene metabolic process"
## "halogenated hydrocarbon metabolic process"
## "nucleotide-excision repair, DNA duplex unwinding"
## "potassium ion export across plasma membrane"
## "cellular carbohydrate metabolic process"
## "establishment of monopolar cell polarity"
## "drug export"
## "regulation of systemic arterial blood pressure by atrial natriuretic peptide"
## "carnitine catabolic process"
## "cysteine transport"
## "positive regulation of tau-protein kinase activity"
## "cysteine transmembrane transport"
## "toxin biosynthetic process"
## "oxidative deethylation"
## "regulation of mammary gland epithelial cell proliferation"
## "positive regulation of viral life cycle"
## "glutamine transport"
## "arginine catabolic process"
## "ERAD pathway"
## "regulation of mesenchymal to epithelial transition involved in metanephros morphogenesis"
## "thymine metabolic process"
## "regulation of tube size"

```

```

## "gene conversion"
## "regulation of DNA strand elongation"
## "kidney rudiment formation"
## "establishment of planar polarity involved in nephron morphogenesis"
## "non-canonical Wnt signaling pathway involved in midbrain dopaminergic neuron diff
## "modulation by host of RNA binding by virus"
## "modulation by host of viral RNA-binding transcription factor activity"
## "protein repair"
## "cerebral cortex cell migration"
## "interaction with other organism via secreted substance involved in symbiotic inter
## "positive regulation of substrate-dependent cell migration, cell attachment to sub
## "receptor clustering"
## "thiamine transport"
## "establishment of protein localization to membrane"
## "positive regulation of apoptotic process"
## "heme oxidation"
## "cellular homeostasis"
## "relaxation of cardiac muscle"
## "negative regulation of retrograde protein transport, ER to cytosol"
## "transcription elongation from RNA polymerase I promoter"
## "negative regulation of timing of anagen"
## "epiboly involved in gastrulation with mouth forming second"
## "bundle of His cell to Purkinje myocyte communication"
## "negative regulation of high voltage-gated calcium channel activity"
## "positive regulation of transforming growth factor-beta secretion"
## "intracellular cholesterol transport"
## "programmed cell death"
## "protein targeting"
## "antigen processing and presentation of endogenous peptide antigen via MHC class I
## "actin polymerization or depolymerization"
## "negative regulation of collagen catabolic process"
## "regulation of programmed cell death"
## "dihydrobiopterin metabolic process"
## "negative regulation of elastin catabolic process"
## "regulation of apoptotic DNA fragmentation"
## "urate biosynthetic process"
## "fusion of virus membrane with host plasma membrane"
## "negative regulation of phosphoprotein phosphatase activity"
## "negative regulation of transforming growth factor-beta secretion"
## "positive regulation of immature T cell proliferation"
## "positive regulation of interleukin-6 production"
## "metanephric glomerulus development"
## "positive regulation of motile cilium assembly"
## "activation of cysteine-type endopeptidase activity involved in apoptotic process"
## "response to exogenous dsRNA"
## "membrane depolarization"
## "response to dsRNA"
## "mesenchymal stem cell maintenance involved in nephron morphogenesis"
## "positive regulation of transcription from RNA polymerase II promoter in response
## "N-glycan processing"
## "transcription initiation from RNA polymerase III promoter"
## "regulation of exocytosis"
## "entry into host cell"
## "regulation of glucocorticoid mediated signaling pathway"

```

```

##      "regulation of gluconeogenesis"
##      "activation of phospholipase A2 activity"
##      "positive regulation of interleukin-4-mediated signaling pathway"
##      "protein K48-linked deubiquitination"
##      "dorsal/ventral neural tube patterning"
##      "SCF complex assembly"
##      "histone H2A acetylation"
##      "inner mitochondrial membrane organization"
##      "positive regulation of dendrite morphogenesis"
##      "post-Golgi vesicle-mediated transport"
##      "nucleotide biosynthetic process"
##      "quinone metabolic process"
##      "regulation of blood coagulation, intrinsic pathway"
##      "negative regulation of activin receptor signaling pathway"
##      "regulation of protein homodimerization activity"
##      "DNA recombinase assembly"
##      "establishment of Golgi localization"
##      "response to glycoside"
##      "lysosome localization"
##      "detection of temperature stimulus"
##      "neuron projection arborization"
##      "glycyl-tRNA aminoacylation"
##      "mitochondrial glycyl-tRNA aminoacylation"
##      "hair follicle maturation"
##      "UDP-D-xylose biosynthetic process"
##      "mesonephric duct formation"
##      "alpha-linolenic acid metabolic process"
##      "cellular response to amino acid starvation"
##      "myelination in peripheral nervous system"
##      "hyperosmotic salinity response"
##      "regulation of long-term neuronal synaptic plasticity"
##      "regulation of cilium beat frequency"
##      "neural crest cell development"
##      "histone H2A-S1 phosphorylation"
##      "regulation of dopamine receptor signaling pathway"
##      "regulation of cell morphogenesis"
##      "telomeric DNA-containing double minutes formation"
##      "negative regulation of protection from non-homologous end joining at telomere"
##      "nuclear-transcribed mRNA catabolic process, non-stop decay"
##      "nonfunctional rRNA decay"
##      "RNA surveillance"
##      "B cell apoptotic process"
##      "T cell activation involved in immune response"
##      "sodium ion export across plasma membrane"
##      "metanephric smooth muscle tissue development"
##      "positive regulation of T cell extravasation"
##      "positive regulation of protein homodimerization activity"
##      "regulation of the force of heart contraction"
##      "homogentisate catabolic process"
##      "positive regulation of cytochrome-c oxidase activity"
##      "membrane repolarization"
##      "response to growth factor"
##      "glycosylation"
##      "thymine catabolic process"

```



```

## "poly(A)+ mRNA export from nucleus"
## "phosphatidylethanolamine catabolic process"
## "melanocyte apoptotic process"
## "negative regulation of extracellular matrix organization"
## "dibenzo-p-dioxin metabolic process"
## "midbrain development"
## "execution phase of apoptosis"
## "response to cytokine"
## "cytoplasmic sequestering of protein"
## "negative regulation of nuclear-transcribed mRNA catabolic process, nonsense-media
## "tRNA aminoacylation"
## "sensory perception of mechanical stimulus"
## "protein lipidation involved in autophagosome assembly"
## "heart trabecula formation"
## "positive regulation of microtubule depolymerization"
## "positive regulation of lipid storage"
## "regulation of cellular senescence"
## "oxalate metabolic process"
## "leukocyte mediated cytotoxicity"
## "negative regulation of calcium-mediated signaling"
## "rhythmic behavior"
## "rhombomere 3 formation"
## "rhombomere 5 formation"
## "MyD88-dependent toll-like receptor signaling pathway"
## "regulation of steroid metabolic process"
## "regulation of chloride transport"
## "regulation of heart rate by hormone"
## "heme transport"
## "regulation of meiotic cell cycle process involved in oocyte maturation"
## "regulation of nitrogen utilization"
## "cellular response to dsDNA"
## "pre-miRNA processing"
## "ganglioside metabolic process"
## "proepicardium cell migration involved in pericardium morphogenesis"
## "negative regulation of interleukin-10 biosynthetic process"
## "formaldehyde catabolic process"
## "regulation of ventricular cardiac muscle cell membrane depolarization"
## "oxidative demethylation"
## "embryonic skeletal joint development"
## "tricuspid valve morphogenesis"
## "tail-anchored membrane protein insertion into ER membrane"
## "regulation of cardiac muscle hypertrophy"
## "response to injury involved in regulation of muscle adaptation"
## "protein side chain deglutamylation"
## "purine nucleoside metabolic process"
## "determination of heart left/right asymmetry"
## "formation of translation preinitiation complex"
## "positive regulation of signaling receptor activity"
## "positive regulation of hemoglobin biosynthetic process"
## "positive regulation of cell cycle process"
## "regulation of ERAD pathway"
## "positive regulation of pro-T cell differentiation"
## "lysosome organization"
## "tryptophan catabolic process to kynurenine"

```

```

##      "sterol transport"
##      "sequestering of calcium ion"
##      "protein import into peroxisome matrix, docking"
##      "myoblast proliferation"
##      "circadian sleep/wake cycle, REM sleep"
##      "mitotic sister chromatid separation"
##      "potassium ion export"
##      "adenylate cyclase-activating adrenergic receptor signaling pathway involved in hea
##      "hindbrain development"
##      "tRNA re-export from nucleus"
##      "regulation of cholesterol transport"
##      "cardiac muscle hypertrophy in response to stress"
##      "C-terminal protein deglutamylation"
##      "protein K6-linked deubiquitination"
##      "microtubule severing"
##      "lung induction"
##      "constitutive secretory pathway"
##      "negative regulation of blood vessel remodeling"
##      "ectoderm development"
##      "negative regulation of cyclic-nucleotide phosphodiesterase activity"
##      "triglyceride homeostasis"
##      "negative regulation of cell death"
##      "platelet degranulation"
##      "positive regulation of glycogen catabolic process"
##      "negative regulation of mitochondrial translation"
##      "nitrogen compound metabolic process"
##      "maintenance of ER location"
##      "maturation of 5.8S rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, L
##      "negative regulation of tyrosine phosphorylation of STAT protein"
##      "regulation of tissue remodeling"
##      "cytolysis in other organism"
##      "endosome organization"
##      "establishment of blood-nerve barrier"
##      "nerve development"
##      "diterpenoid metabolic process"
##      "tendon development"
##      "intestinal stem cell homeostasis"
##      "positive regulation of dendritic spine development"
##      "cell differentiation involved in metanephros development"
##      "monoamine transport"
##      "positive regulation of acute inflammatory response to antigenic stimulus"
##      "response to cobalt ion"
##      "negative regulation of cysteine-type endopeptidase activity involved in execution
##      "retrograde axonal transport"
##      "response to endoplasmic reticulum stress"
##      "tRNA export from nucleus"
##      "general adaptation syndrome"
##      "positive regulation of neurotrophin production"
##      "positive regulation of lipid catabolic process"
##      "lysosomal protein catabolic process"
##      "T cell aggregation"
##      "mitochondrial RNA 5'-end processing"
##      "gene silencing by miRNA"
##      "regulation of protein processing"

```

```

## "sorbitol biosynthetic process"
## "inner dynein arm assembly"
## "cellular response to methylglyoxal"
## "protein import into peroxisome matrix, translocation"
## "positive regulation of icosanoid secretion"
## "post-embryonic animal organ morphogenesis"
## "negative regulation of Rac protein signal transduction"
## "pteridine-containing compound metabolic process"
## "negative regulation of vitamin D biosynthetic process"
## "bile acid metabolic process"
## "cellular response to magnesium ion"
## "dUDP biosynthetic process"
## "dTDP biosynthetic process"
## "SREBP-SCAP complex retention in endoplasmic reticulum"
## "regulation of endoplasmic reticulum stress-induced eIF2 alpha phosphorylation"
## "negative regulation of protein exit from endoplasmic reticulum"
## "L-aspartate import across plasma membrane"
## "negative regulation of cargo loading into COPII-coated vesicle"
## "cytoplasmic sequestering of NF-kappaB"
## "negative regulation of calcium ion export across plasma membrane"
## "negative regulation of meiotic cell cycle"
## "BMP signaling pathway involved in heart development"
## "cofactor metabolic process"
## "negative regulation of SNARE complex assembly"
## "positive regulation of protein exit from endoplasmic reticulum"
## "positive regulation of cytokine production"
## "phenylacetate catabolic process"
## "nicotinate nucleotide salvage"
## "lysine biosynthetic process via amino adipic acid"
## "endocytic hemoglobin import"
## "NAD salvage"
## "chromosome passenger complex localization to spindle midzone"
## "cobalamin catabolic process"
## "negative regulation of epidermal cell differentiation"
## "regulation of interleukin-8 secretion"
## "negative regulation of oxidative stress-induced cell death"
## "positive regulation of cysteine-type endopeptidase activity involved in apoptotic"
## "regulation of sarcomere organization"
## "regulation of dendritic spine development"
## "negative regulation of smooth muscle cell migration"
## "positive regulation of macrophage tolerance induction"
## "histidine catabolic process to glutamate and formamide"
## "histidine catabolic process to glutamate and formate"
## "regulation of protein complex disassembly"
## "cellular response to anoxia"
## "negative regulation of glucocorticoid secretion"
## "phosphatidylethanolamine biosynthetic process"
## "modification-dependent protein catabolic process"
## "mitochondrial alanyl-tRNA aminoacylation"
## "myelin assembly"
## "protein catabolic process"
## "regulation of endopeptidase activity"
## "negative regulation of endodeoxyribonuclease activity"
## "regulation of replicative cell aging"

```

```

## "mitotic DNA damage checkpoint"
## "positive regulation of protein autoubiquitination"
## "long-chain fatty acid catabolic process"
## "purine nucleotide catabolic process"
## "dGDP biosynthetic process"
## "response to brefeldin A"
## "dGMP metabolic process"
## "dATP metabolic process"
## "GDP biosynthetic process"
## "biphenyl catabolic process"
## "negative regulation of lactation"
## "T-tubule organization"
## "virion assembly"
## "positive regulation of collateral sprouting of injured axon"
## "negative regulation of dendrite extension"
## "positive regulation of ERBB3 signaling pathway"
## "negative regulation of formation of growth cone in injured axon"
## "monocarboxylic acid metabolic process"
## "neuron development"
## "protein delipidation"
## "regulation of microtubule binding"
## "cellular response to interleukin-6"
## "clustering of voltage-gated potassium channels"
## "negative regulation of potassium ion export"
## "heart valve development"
## "propionate catabolic process"
## "glycerol biosynthetic process from pyruvate"
## "sphingoid biosynthetic process"
## "negative regulation of protein targeting to mitochondrion"
## "establishment of endothelial intestinal barrier"
## "isoquinoline alkaloid metabolic process"
## "synaptic vesicle recycling"
## "heme metabolic process"
## "cellular response to peptide hormone stimulus"
## "hepatocyte homeostasis"
## "positive regulation of nuclear-transcribed mRNA catabolic process, deadenylation-c"
## "response to tetrachloromethane"
## "cellular response to nitrosative stress"
## "acute inflammatory response"
## "glial cell migration"
## "tRNA N1-guanine methylation"
## "negative regulation of sperm capacitation"
## "regulation of binding of sperm to zona pellucida"
## "ERK1 and ERK2 cascade"
## "regulation of stem cell division"
## "negative regulation of peptidyl-serine dephosphorylation"
## "potassium ion transmembrane transport"
## "negative regulation of mitochondrial membrane permeability"
## "ventricular cardiac muscle cell membrane repolarization"
## "myeloid leukocyte differentiation"
## "negative regulation of glomerular filtration by angiotensin"
## "smooth muscle hypertrophy"
## "cytochrome complex assembly"
## "hepatic duct development"

```

"DNA conformation change"
 ## "regulation of adaxial/abaxial pattern formation"
 ## "cerebral cortex radial glia guided migration"
 ## "pancreas development"
 ## "resolution of mitotic recombination intermediates"
 ## "proximal/distal pattern formation"
 ## "negative regulation of ERK5 cascade"
 ## "primary lung bud formation"
 ## "cellular response to organic substance"
 ## "skeletal muscle fiber differentiation"
 ## "response to caffeine"
 ## "positive regulation of extrinsic apoptotic signaling pathway in absence of ligand"
 ## "epithelial tube morphogenesis"
 ## "regulation of epithelial cell differentiation involved in kidney development"
 ## "positive regulation of glomerular filtration"
 ## "cell part morphogenesis"
 ## "enteroendocrine cell differentiation"
 ## "formaldehyde biosynthetic process"
 ## "coreceptor-mediated virion attachment to host cell"
 ## "regulation of intestinal epithelial structure maintenance"
 ## "liver morphogenesis"
 ## "mitochondrial mRNA processing"
 ## "response to nitrogen compound"
 ## "response to hydrogen sulfide"
 ## "negative regulation of cytokine production"
 ## "acetyl-CoA transport"
 ## "regulation of cell differentiation involved in embryonic placenta development"
 ## "response to muscle activity"
 ## "hypoxanthine salvage"
 ## "COPI coating of Golgi vesicle"
 ## "response to salt stress"
 ## "peptidyl-threonine dephosphorylation"
 ## "phospholipid dephosphorylation"
 ## "melanosome transport"
 ## "metanephric tubule formation"
 ## "positive regulation of choline O-acetyltransferase activity"
 ## "negative regulation of tau-protein kinase activity"
 ## "positive regulation of early endosome to recycling endosome transport"
 ## "negative regulation of neurofibrillary tangle assembly"
 ## "D-serine transport"
 ## "negative regulation of p38MAPK cascade"
 ## "tRNA modification"
 ## "renal system process"
 ## "second-messenger-mediated signaling"
 ## "regulation of mitochondrial fission"
 ## "intestinal D-glucose absorption"
 ## "ultradian rhythm"
 ## "terminal web assembly"
 ## "intrinsic apoptotic signaling pathway in response to hypoxia"
 ## "positive regulation of B cell apoptotic process"
 ## "DNA ligation involved in DNA recombination"
 ## "positive regulation of chromosome organization"
 ## "positive regulation of nitric oxide mediated signal transduction"
 ## "long-chain fatty acid biosynthetic process"

```

## "Golgi vesicle budding"
## "apoptotic process involved in blood vessel morphogenesis"
## "central nervous system neuron axonogenesis"
## "regulation of natural killer cell differentiation"
## "regulation of extrathymic T cell differentiation"
## "regulation of NK T cell differentiation"
## "negative regulation of cell cycle arrest"
## "response to nitroglycerin"
## "sebum secreting cell proliferation"
## "nuclear mRNA surveillance"
## "NIK/NF-kappaB signaling"
## "response to methionine"
## "positive regulation of leukocyte mediated cytotoxicity"
## "positive regulation of protein kinase C activity"
## "cranial nerve development"
## "positive regulation of binding"
## "negative regulation of fat cell proliferation"
## "apoptotic DNA fragmentation"
## "protein sumoylation"
## "positive regulation of MHC class I biosynthetic process"
## "regulation of fibrinolysis"
## "mitochondrial tryptophanyl-tRNA aminoacylation"
## "trophectodermal cellular morphogenesis"
## "cell proliferation involved in kidney development"
## "mesonephric duct morphogenesis"
## "antigen processing and presentation of peptide antigen via MHC class I"
## "embryonic ectodermal digestive tract development"
## "negative regulation of mitotic nuclear division"
## "regulation of ATP:ADP antiporter activity"
## "ER-associated misfolded protein catabolic process"
## "apoptotic signaling pathway"
## "riposome assembly"
## "positive regulation of potassium ion transmembrane transporter activity"
## "positive regulation of deadenylation-independent decapping of nuclear-transcribed"
## "negative regulation of polynucleotide adenylyltransferase activity"
## "negative regulation of glucokinase activity"
## "ectoderm formation"
## "regulation of vascular permeability involved in acute inflammatory response"
## "oviduct epithelium development"
## "uterine epithelium development"
## "nephric duct elongation"
## "horizontal cell localization"
## "axonemal microtubule depolymerization"
## "plus-end specific microtubule depolymerization"
## "renal vesicle morphogenesis"
## "metanephric renal vesicle morphogenesis"
## "dorsal spinal cord interneuron posterior axon guidance"
## "positive regulation of apoptotic process by virus"
## "fatty acid elongation"
## "phospholipase C-activating angiotensin-activated signaling pathway"
## "rRNA catabolic process"
## "response to insulin"
## "glycoside catabolic process"
## "glucose homeostasis"

```

"acetylcholine biosynthetic process"
 ## "negative regulation by host of viral exo-alpha-sialidase activity"
 ## "negative regulation by host of viral glycoprotein metabolic process"
 ## "cellular chemical homeostasis"
 ## "negative regulation of exo-alpha-sialidase activity"
 ## "negative regulation of glycoprotein metabolic process"
 ## "protein localization to Golgi apparatus"
 ## "positive regulation of syncytium formation by plasma membrane fusion"
 ## "T cell differentiation in thymus"
 ## "peptidyl-lysine trimethylation"
 ## "bicarbonate transport"
 ## "lateral mesoderm development"
 ## "hepatoblast differentiation"
 ## "cellular response to lipid hydroperoxide"
 ## "response to electrical stimulus involved in regulation of muscle adaptation"
 ## "sphingolipid metabolic process"
 ## "coumarin metabolic process"
 ## "endosomal vesicle fusion"
 ## "regulation of response to osmotic stress"
 ## "establishment of protein localization to chromatin"
 ## "positive regulation of natural killer cell mediated cytotoxicity"
 ## "receptor internalization involved in canonical Wnt signaling pathway"
 ## "peroxisomal long-chain fatty acid import"
 ## "positive regulation of immunoglobulin mediated immune response"
 ## "peptidyl-lysine methylation"
 ## "regulation of mitotic recombination"
 ## "glycerol ether metabolic process"
 ## "response to interleukin-6"
 ## "positive regulation of exocytosis"
 ## "extracellular matrix constituent secretion"
 ## "negative regulation of calcium ion transport into cytosol"
 ## "regulation of chromatin disassembly"
 ## "bile acid catabolic process"
 ## "response to arsenic-containing substance"
 ## "positive regulation of exosomal secretion"
 ## "somatic hypermutation of immunoglobulin genes"
 ## "ovarian follicle development"
 ## "glutamate receptor signaling pathway"
 ## "glycine betaine biosynthetic process from choline"
 ## "negative regulation of T-helper cell differentiation"
 ## "positive regulation of nephron tubule epithelial cell differentiation"
 ## "tryptophan catabolic process to acetyl-CoA"
 ## "chemical homeostasis within a tissue"
 ## "positive regulation of isotype switching to IgA isotypes"
 ## "xenobiotic transport"
 ## "nuclear protein quality control by the ubiquitin-proteasome system"
 ## "asymmetric Golgi ribbon formation"
 ## "pancreatic A cell fate commitment"
 ## "pancreatic PP cell fate commitment"
 ## "follicular dendritic cell differentiation"
 ## "negative regulation of peptidyl-serine phosphorylation of STAT protein"
 ## "myotube differentiation"
 ## "pharyngeal arch artery morphogenesis"
 ## "regulation of extrinsic apoptotic signaling pathway"

```

##      "cellular response to parathyroid hormone stimulus"
##      "multi-organism membrane organization"
##      "viral replication complex formation and maintenance"
##      "negative regulation of intracellular transport"
##      "regulation of anion transport"
##      "postsynapse organization"
##      "deoxynucleotide transport"
##      "thiamine pyrophosphate transmembrane transport"
##      "positive regulation of mast cell activation"
##      "positive regulation of glial cell apoptotic process"
##      "regulation of erythrocyte differentiation"
##      "cardiac myofibril assembly"
##      "regulation of mitochondrial outer membrane permeabilization involved in apoptotic
##      "detection of mechanical stimulus involved in sensory perception of pain"
##      "membrane repolarization during ventricular cardiac muscle cell action potential"
##      "regulation of mesoderm development"
##      "response to L-glutamate"
##      "wound healing involved in inflammatory response"
##      "ITP catabolic process"
##      "methionine metabolic process"
##      "deoxyribonucleoside triphosphate catabolic process"
##      "pantothenate metabolic process"
##      "positive regulation of bone resorption"
##      "glutamyl-tRNAGln biosynthesis via transamidation"
##      "negative regulation of epithelial cell apoptotic process"
##      "positive regulation of cytolysis"
##      "receptor recycling"
##      "regulation of viral genome replication"
##      "positive regulation of cyclase activity"
##      "response to stress"
##      "epithelial cell proliferation involved in renal tubule morphogenesis"
##      "negative regulation of potassium ion transmembrane transporter activity"
##      "negative regulation of endocytic recycling"
##      "labyrinthine layer blood vessel development"
##      "ERBB signaling pathway"
##      "neuromuscular process controlling balance"
##      "pyrimidine nucleoside catabolic process"
##      "deoxyadenosine catabolic process"
##      "purine nucleotide salvage"
##      "xanthine biosynthetic process"
##      "negative regulation of adenosine receptor signaling pathway"
##      "negative regulation of penile erection"
##      "regulation of smooth muscle cell-matrix adhesion"
##      "ubiquitin-independent protein catabolic process via the multivesicular body sorting
##      "negative regulation of protein kinase C signaling"
##      "regulation of cell-cell adhesion mediated by integrin"
##      "hypothalamus cell differentiation"
##      "positive regulation of transcription involved in exit from mitosis"
##      "cellular process regulating host cell cycle in response to virus"
##      "positive regulation of Golgi to plasma membrane protein transport"
##      "brain segmentation"
##      "strand invasion"
##      "negative regulation of T-helper 2 cell cytokine production"
##      "luteolysis"

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##      "intussusceptive angiogenesis"
##      "negative regulation of immune system process"
##      "heart valve formation"
##      "intrahepatic bile duct development"
##      "epithelial cell proliferation involved in prostatic bud elongation"
##      "regulation of cell proliferation involved in tissue homeostasis"
##      "regulation of branching involved in lung morphogenesis"
##      "response to cGMP"
##      "cellular response to acidic pH"
##      "regulation of epithelial cell proliferation involved in lung morphogenesis"
##      "negative regulation of developmental growth"
##      "fibroblast growth factor receptor apoptotic signaling pathway"
##      "response to L-ascorbic acid"
##      "pyrimidine nucleotide biosynthetic process"
##      "cardiac muscle tissue morphogenesis"
##      "cellular response to ammonia"
##      "development of secondary sexual characteristics"
##      "cyclooxygenase pathway"
##      "lipid transport"
##      "adenosine catabolic process"
##      "cobalamin transport"
##      "inosine biosynthetic process"
##      "cellular response to metal ion"
##      "cytochrome c-heme linkage"
##      "L-serine transport"
##      "negative regulation of MAPK cascade"
##      "transcription preinitiation complex assembly"
##      "meiotic metaphase I plate congression"
##      "meiotic spindle midzone assembly"
##      "glucuronoside catabolic process"
##      "negative regulation of cytoplasmic translational elongation"
##      "negative regulation of cysteine-type endopeptidase activity involved in apoptotic
##      "3'-phosphoadenosine 5'-phosphosulfate biosynthetic process"
##      "mitochondrial citrate transmembrane transport"
##      "cerebellar Purkinje cell-granule cell precursor cell signaling involved in regula
##      "linoleic acid metabolic process"
##      "embryonic digestive tract development"
##      "membrane repolarization during cardiac muscle cell action potential"
##      "response to folic acid"
##      "calcium-independent cell-matrix adhesion"
##      "regulation of skeletal muscle adaptation"
##      "spermatid nucleus elongation"
##      "nucleotide-binding oligomerization domain containing 1 signaling pathway"
##      "cell-cell adhesion involved in gastrulation"
##      "cellular response to leucine starvation"
##      "regulation of insulin secretion involved in cellular response to glucose stimulus
##      "male meiosis chromosome segregation"
##      "positive regulation of protein localization to endoplasmic reticulum"
##      "response to muscle stretch"
##      "positive regulation of leukocyte tethering or rolling"
##      "mitophagy"
##      "peptide antigen assembly with MHC class I protein complex"
##      "positive regulation of natural killer cell degranulation"
##      "defense response to Gram-negative bacterium"

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##      "carbon catabolite regulation of transcription"
##      "diacylglycerol biosynthetic process"
##      "regulation of integrin biosynthetic process"
##      "intermembrane sphingolipid transfer"
##      "interleukin-6 secretion"
##      "protein modification by small protein conjugation"
##      "integrin biosynthetic process"
##      "long-term synaptic depression"
##      "endosome to melanosome transport"
##      "L-glutamate import"
##      "regulation of JNK cascade"
##      "regulation of toll-like receptor signaling pathway"
##      "negative regulation of ubiquitin-protein transferase activity"
##      "gene expression"
##      "positive regulation of mesenchymal cell proliferation"
##      "'de novo' NAD biosynthetic process from tryptophan"
##      "neural crest cell fate specification"
##      "monovalent inorganic cation transport"
##      "negative regulation of receptor recycling"
##      "heterophilic cell-cell adhesion via plasma membrane cell adhesion molecules"
##      "positive regulation of chaperone-mediated protein complex assembly"
##      "negative regulation of histone H4-K16 acetylation"
##      "susceptibility to T cell mediated cytotoxicity"
##      "epoxide metabolic process"
##      "negative regulation of G protein-coupled receptor signaling pathway"
##      "innervation"
##      "response to interleukin-18"
##      "galactosylceramide biosynthetic process"
##      "rRNA transcription"
##      "neutrophil migration"
##      "radial pattern formation"
##      "actin modification"
##      "negative regulation of stem cell population maintenance"
##      "primary miRNA methylation"
##      "regulation of interleukin-1-mediated signaling pathway"
##      "neural crest cell migration involved in autonomic nervous system development"
##      "cellular response to UV-B"
##      "positive regulation of mesenchymal stem cell differentiation"
##      "smooth muscle hyperplasia"
##      "response to radiation"
##      "polyphosphate catabolic process"
##      "spermatogenesis, exchange of chromosomal proteins"
##      "miRNA loading onto RISC involved in gene silencing by miRNA"
##      "skin morphogenesis"
##      "cellular response to cGMP"
##      "regulation of release of sequestered calcium ion into cytosol by sarcoplasmic reticulum"
##      "positive regulation of epithelial cell proliferation"
##      "miRNA mediated inhibition of translation"
##      "histone H4-R3 methylation"
##      "protein-containing complex assembly"
##      "T cell cytokine production"
##      "assembly of large subunit precursor of preribosome"
##      "skeletal muscle satellite cell maintenance involved in skeletal muscle regeneration"
##      "negative regulation of collagen biosynthetic process"

```

```

##      "epithelial cell maturation"
##      "CUT catabolic process"
##      "protein K11-linked deubiquitination"
##      "germinal center B cell differentiation"
##      "intrinsic apoptotic signaling pathway in response to osmotic stress"
##      "regulation of transcription from RNA polymerase II promoter in response to iron"
##      "ER to Golgi ceramide transport"
##      "positive regulation of mitochondrial membrane permeability"
##      "modification of morphology or physiology of other organism"
##      "regulation of endoplasmic reticulum stress-induced intrinsic apoptotic signaling p
##      "positive regulation of T cell mediated immunity"
##      "regulation of cellular component movement"
##      "negative regulation of cellular extravasation"
##      "negative regulation of neutrophil degranulation"
##      "regulation of cytosolic calcium ion concentration"
##      "negative regulation of stem cell proliferation"
##      "calcium ion export across plasma membrane"
##      "cardiac right ventricle morphogenesis"
##      "GMP salvage"
##      "amacrine cell differentiation"
##      "cell death in response to oxidative stress"
##      "hypoxanthine metabolic process"
##      "positive regulation of interleukin-6-mediated signaling pathway"
##      "condensed mesenchymal cell proliferation"
##      "beta-glucoside catabolic process"
##      "positive regulation of neuronal action potential"
##      "fructose biosynthetic process"
##      "diaphragm development"
##      "barbed-end actin filament capping"
##      "positive regulation of killing of cells of other organism"
##      "mitochondrial DNA metabolic process"
##      "nuclear retention of unspliced pre-mRNA at the site of transcription"
##      "mitotic cytokinetic process"
##      "N-acetylneuraminate catabolic process"
##      "positive regulation of histone H3-K14 acetylation"
##      "negative regulation by symbiont of host apoptotic process"
##      "antigen processing and presentation of exogenous peptide antigen via MHC class I,
##      "medium-chain fatty-acyl-CoA metabolic process"
##      "male germ-line sex determination"
##      "nucleotide phosphorylation"
##      "stem cell division"
##      "sleep"
##      "mast cell mediated immunity"
##      "ceramide translocation"
##      "negative regulation of apoptotic signaling pathway"
##      "phosphatidylinositol metabolic process"
##      "axo-dendritic transport"
##      "regulation of cardiac muscle contraction by calcium ion signaling"
##      "regulation of BMP signaling pathway"
##      "DNA biosynthetic process"
##      "glomerular capillary formation"
##      "positive regulation of cardiac muscle tissue development"
##      "homotypic cell-cell adhesion"
##      "rRNA acetylation involved in maturation of SSU-rRNA"

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##      "mitochondrial protein catabolic process"
##      "cellular response to follicle-stimulating hormone stimulus"
##      "neutrophil differentiation"
##      "response to curcumin"
##      "mitral valve morphogenesis"
##      "regulation of chorionic trophoblast cell proliferation"
##      "glial cell development"
##      "negative regulation of germinal center formation"
##      "maltose metabolic process"
##      "trophectodermal cell proliferation"
##      "regulation of vacuole fusion, non-autophagic"
##      "DNA endoreduplication"
##      "choline catabolic process"
##      "regulation of histone deacetylase activity"
##      "pre-mRNA catabolic process"
##      "glycerolipid metabolic process"
##      "negative regulation of sodium ion transmembrane transporter activity"
##      "negative regulation of growth of symbiont in host"
##      "telomeric loop disassembly"
##      "phosphatidylcholine acyl-chain remodeling"
##      "glycerol catabolic process"
##      "cytoplasmic sequestering of CFTR protein"
##      "B cell affinity maturation"
##      "regulation of B cell cytokine production"
##      "cellular response to interleukin-7"
##      "negative regulation of deoxyribonuclease activity"
##      "negative regulation of apoptotic DNA fragmentation"
##      "cellular response to phorbol 13-acetate 12-myristate"
##      "regulation of protein kinase A signaling"
##      "cargo loading into vesicle"
##      "positive regulation of hyaluronan biosynthetic process"
##      "apoptotic process involved in embryonic digit morphogenesis"
##      "negative regulation of defense response to bacterium"
##      "magnesium ion homeostasis"
##      "protein targeting to vacuole"
##      "positive regulation of protein localization to cell cortex"
##      "negative regulation of caveolin-mediated endocytosis"
##      "T follicular helper cell differentiation"
##      "pyrimidine-containing compound salvage"
##      "negative regulation of anion channel activity"
##      "negative regulation of nucleotide metabolic process"
##      "intermembrane lipid transfer"
##      "regulation of DNA-templated transcription, initiation"
##      "acyl carnitine transmembrane transport"
##      "regulation of osteoclast development"
##      "peroxisome proliferator activated receptor signaling pathway"
##      "nuclear-transcribed mRNA catabolic process, deadenylation-independent decay"
##      "nuclear retention of pre-mRNA with aberrant 3'-ends at the site of transcription"
##      "cellular response to fructose stimulus"
##      "regulation of keratinocyte apoptotic process"
##      "positive regulation of intracellular mRNA localization"
##      "outflow tract morphogenesis"
##      "regulation of ion transmembrane transport"
##      "regulation of stem cell proliferation"

```

```

##      "response to vitamin A"
##      "response to vitamin B6"
##      "microtubule-dependent intracellular transport of viral material towards nucleus"
##      "thigmotaxis"
##      "positive regulation of immunoglobulin production"
##      "FAD biosynthetic process"
##      "fatty acid beta-oxidation using acyl-CoA oxidase"
##      "determination of adult lifespan"
##      "molybdenum incorporation into molybdenum-molybdopterin complex"
##      "glycine receptor clustering"
##      "cellular response to staurosporine"
##      "ventricular septum development"
##      "positive regulation of deoxyribonuclease activity"
##      "regulation of cellular respiration"
##      "negative regulation of endodermal cell differentiation"
##      "melanin metabolic process"
##      "negative regulation of axon extension"
##      "positive regulation of low-density lipoprotein particle receptor catabolic process"
##      "negative regulation of cellular pH reduction"
##      "CD8-positive, alpha-beta T cell lineage commitment"
##      "negative regulation of retinal cell programmed cell death"
##      "pigment granule organization"
##      "inner medullary collecting duct development"
##      "postsynaptic membrane organization"
##      "blood coagulation, extrinsic pathway"
##      "positive regulation of mitochondrial fusion"
##      "chemoattraction of axon"
##      "ferric iron import across cell outer membrane"
##      "positive regulation of interferon-alpha biosynthetic process"
##      "CDP-diacylglycerol metabolic process"
##      "positive regulation of connective tissue replacement"
##      "prostaglandin secretion"
##      "histidine catabolic process"
##      "regulation of autophagosome assembly"
##      "asymmetric cell division"
##      "vesicle transport along actin filament"
##      "cellular response to toxic substance"
##      "positive regulation of glycogen biosynthetic process"
##      "induction by virus of host cell-cell fusion"
##      "helper T cell enhancement of adaptive immune response"
##      "ovulation cycle"
##      "regulation of relaxation of cardiac muscle"
##      "regulation of cell junction assembly"
##      "GDP-mannose metabolic process"
##      "neutrophil aggregation"
##      "negative regulation of constitutive secretory pathway"
##      "multi-organism toxin transport"
##      "L-kynurenine catabolic process"
##      "Schwann cell differentiation"
##      "positive regulation of toll-like receptor signaling pathway"
##      "positive regulation of microtubule binding"
##      "ameboid-type cell migration"
##      "negative regulation of megakaryocyte differentiation"
##      "nucleoside triphosphate catabolic process"

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##      "blastocyst development"
##      "endoplasmic reticulum tubular network formation"
##      "T cell activation"
##      "negative regulation of oxidative stress-induced intrinsic apoptotic signaling path
##      "negative regulation of transcription from RNA polymerase II promoter by glucose"
##      "negative regulation of detection of glucose"
##      "mRNA splicing, via endonucleolytic cleavage and ligation"
##      "mRNA cleavage involved in mRNA processing"
##      "peptidyl-serine trans-autophosphorylation"
##      "G1 to G0 transition"
##      "negative regulation of protein glutathionylation"
##      "aminergic neurotransmitter loading into synaptic vesicle"
##      "negative regulation of actin nucleation"
##      "histone mRNA catabolic process"
##      "negative regulation of DNA damage checkpoint"
##      "macrophage apoptotic process"
##      "positive regulation of tolerance induction"
##      "positive regulation of proton-transporting ATP synthase activity, rotational mecha
##      "mitochondrion migration along actin filament"
##      "L-alanine metabolic process"
##      "dorsal/ventral axis specification"
##      "proline transmembrane transport"
##      "porphyrin-containing compound metabolic process"
##      "negative regulation of vesicle fusion"
##      "translation reinitiation"
##      "response to cycloheximide"
##      "apoptotic process in bone marrow"
##      "metal ion transport"
##      "positive regulation of cardiolipin metabolic process"
##      "immortalization of host cell by virus"
##      "uracil metabolic process"
##      "sperm mitochondrion organization"
##      "dUMP metabolic process"
##      "adenosine biosynthetic process"
##      "establishment of vesicle localization"
##      "paramesonephric duct development"
##      "cellular response to benomyl"
##      "prolyl-tRNA aminoacylation"
##      "high-density lipoprotein particle assembly"
##      "myoblast fate determination"
##      "cellular response to aldosterone"
##      "positive regulation of eosinophil differentiation"
##      "icosanoid biosynthetic process"
##      "oviduct development"
##      "camera-type eye photoreceptor cell differentiation"
##      "positive regulation of synapse assembly"
##      "protein maturation by copper ion transfer"
##      "positive regulation of Schwann cell chemotaxis"
##      "syncytium formation by plasma membrane fusion"
##      "response to protozoan"
##      "detection of chemical stimulus involved in sensory perception of sweet taste"
##      "tRNA wobble base cytosine methylation"
##      "innate immune response activating cell surface receptor signaling pathway"
##      "activation of immune response"

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```

## "endothelial cell activation involved in immune response"
## "CD4-positive, CD25-positive, alpha-beta regulatory T cell differentiation"
## "plasmacytoid dendritic cell antigen processing and presentation"
## "negative regulation of antigen processing and presentation of peptide antigen via
## "regulation of cytokine production involved in immune response"
## "positive regulation of antimicrobial humoral response"
## "negative regulation of antibacterial peptide production"
## "intracellular defense response"
## "detection of hypoxic conditions in blood by carotid body chemoreceptor signaling"
## "detection of oxygen"
## "negative regulation of the force of heart contraction by chemical signal"
## "cardiac atrium formation"
## "sinus venosus morphogenesis"
## "cardioblast anterior-lateral migration"
## "growth plate cartilage axis specification"
## "disaccharide metabolic process"
## "GPI anchor release"
## "polyamine catabolic process"
## "sphinganine metabolic process"
## "sperm displacement"
## "lipopolysaccharide catabolic process"
## "nucleoside monophosphate biosynthetic process"
## "purine nucleoside monophosphate catabolic process"
## "nucleoside diphosphate metabolic process"
## "nucleoside diphosphate biosynthetic process"
## "nucleoside diphosphate catabolic process"
## "purine ribonucleoside diphosphate catabolic process"
## "pyrimidine deoxyribonucleotide catabolic process"
## "response to salicylic acid"
## "hormone transport"
## "response to alkaline pH"
## "negative regulation of cytoplasmic mRNA processing body assembly"
## "meiotic sister chromatid cohesion involved in meiosis I"
## "transport along microtubule"
## "positive regulation of high-density lipoprotein particle clearance"
## "regulation of satellite cell activation involved in skeletal muscle regeneration"
## "myoblast fusion involved in skeletal muscle regeneration"
## "nitrate transport"
## "lactate transport"
## "propanoate transport"
## "sucrose transport"
## "aromatic amino acid transport"
## "branched-chain amino acid transport"
## "lysine transport"
## "methionine transport"
## "purine nucleoside transmembrane transport"
## "pyrimidine nucleoside transport"
## "purine nucleotide transport"
## "short-chain fatty acid import"
## "coenzyme A catabolic process"
## "snoRNA catabolic process"
## "carotenoid metabolic process"
## "carotene metabolic process"
## "carotene catabolic process"

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##      "xanthophyll metabolic process"
##      "antibiotic metabolic process"
##      "peptidyl-serine octanoylation"
##      "protein esterification"
##      "thiocyanate metabolic process"
##      "intracellular transport of viral protein in host cell"
##      "siderophore biosynthetic process"
##      "inositol catabolic process"
##      "galactolipid catabolic process"
##      "allantoin biosynthetic process"
##      "aromatic compound biosynthetic process"
##      "urate catabolic process"
##      "organophosphate metabolic process"
##      "propionate metabolic process, methylcitrate cycle"
##      "cyclic-nucleotide-mediated signaling"
##      "commissural neuron differentiation in spinal cord"
##      "rhombomere 2 development"
##      "cerebellar Purkinje cell layer formation"
##      "negative regulation of cell motility involved in cerebral cortex radial glia guidance"
##      "dermatan sulfate catabolic process"
##      "phosphatidylinositol catabolic process"
##      "regulation of vesicle fusion"
##      "negative regulation of brain-derived neurotrophic factor receptor signaling pathway"
##      "trypsinogen activation"
##      "transposition"
##      "reverse transcription involved in RNA-mediated transposition"
##      "otolith formation"
##      "granulocyte macrophage colony-stimulating factor production"
##      "interleukin-8 production"
##      "regulation of natural killer cell differentiation involved in immune response"
##      "protein insertion into mitochondrial inner membrane from matrix side"
##      "beta-alanine biosynthetic process via 3-ureidopropionate"
##      "carbohydrate homeostasis"
##      "protein galactosylation at cell surface"
##      "cellular response to zinc ion starvation"
##      "enkephalin processing"
##      "islet amyloid polypeptide processing"
##      "tRNA 3'-trailer cleavage, endonucleolytic"
##      "cell competition in a multicellular organism"
##      "vitamin A biosynthetic process"
##      "borate transmembrane transport"
##      "carnosine biosynthetic process"
##      "neuromast hair cell development"
##      "memory T cell activation"
##      "T-helper 2 cell activation"
##      "response to nitrogen dioxide"
##      "nitric oxide storage"
##      "dITP catabolic process"
##      "cellular response to copper ion starvation"
##      "corticosterone secretion"
##      "tendon formation"
##      "recruitment of mRNA capping enzyme to RNA polymerase II holoenzyme complex"
##      "GDP-fucose import into Golgi lumen"
##      "sequestering of nodal from receptor via nodal binding"

```



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##      "urokinase plasminogen activator signaling pathway"
##      "fluid transport"
##      "late meiotic recombination nodule assembly"
##      "regulation of cytolysis"
##      "thyroid hormone catabolic process"
##      "negative regulation of hair cycle"
##      "negative regulation of endodermal cell fate specification"
##      "D-xylose catabolic process"
##      "amino acid activation for nonribosomal peptide biosynthetic process"
##      "regulation of translation by machinery localization"
##      "sodium-dependent organic anion transport"
##      "regulation of skeletal muscle tissue regeneration"
##      "acetoacetic acid metabolic process"
##      "regulation of generation of precursor metabolites and energy"
##      "ncRNA polyadenylation"
##      "ncRNA polyadenylation involved in polyadenylation-dependent ncRNA catabolic process"
##      "intestinal lipid catabolic process"
##      "cellular carbohydrate catabolic process"
##      "clearance of foreign intracellular DNA by conversion of DNA cytidine to uridine"
##      "otolith mineralization"
##      "basophil activation"
##      "positive regulation of neutrophil differentiation"
##      "dUMP catabolic process"
##      "thymidine biosynthetic process"
##      "L-arabinose metabolic process"
##      "development of primary male sexual characteristics"
##      "negative regulation of calcium-dependent cell-cell adhesion"
##      "negative regulation of mitotic centrosome separation"
##      "borate transport"
##      "compound eye corneal lens development"
##      "regulation of eye pigmentation"
##      "spermatocyte division"
##      "long-day photoperiodism"
##      "negative regulation of collateral sprouting in absence of injury"
##      "pronephros development"
##      "adenohypophysis morphogenesis"
##      "regulation of thymidylate synthase biosynthetic process"
##      "cocaine metabolic process"
##      "regulation of B cell activation"
##      "detection of stimulus involved in sensory perception"
##      "detection of chemical stimulus involved in sensory perception"
##      "positive regulation of neurotransmitter uptake"
##      "barbed-end actin filament uncapping"
##      "regulation of timing of anagen"
##      "lysophospholipid transport"
##      "response to defense-related host nitric oxide production"
##      "Golgi to secretory granule transport"
##      "linear vestibuloocular reflex"
##      "negative regulation of protein glycosylation"
##      "vestibular receptor cell development"
##      "female mating behavior"
##      "negative regulation of ovulation"
##      "regulation of cytokine activity"
##      "lobar bronchus epithelium development"

```

```

## "regulation of homologous chromosome segregation"
## "BMP signaling pathway involved in mesodermal cell fate specification"
## "negative regulation of canonical Wnt signaling pathway involved in neural plate an
## "limb epidermis development"
## "cardiac cell fate specification"
## "sinoatrial node cell differentiation"
## "cardioblast migration to the midline involved in heart field formation"
## "lipid tube assembly involved in organelle fusion"
## "negative regulation of hair follicle placode formation"
## "acetylcholine secretion"
## "actin filament bundle organization"
## "antifungal innate immune response"
## "negative regulation of SCF-dependent proteasomal ubiquitin-dependent catabolic pr
## "regulation of mucus secretion"
## "necrotic cell death"
## "positive regulation of hepatocyte differentiation"
## "positive regulation of ERK5 cascade"
## "negative regulation of leukocyte proliferation"
## "seminal clot liquefaction"
## "phosphatidylserine exposure on apoptotic cell surface"
## "nuclear polyadenylation-dependent snoRNA catabolic process"
## "nuclear polyadenylation-dependent snRNA catabolic process"
## "snoRNA polyadenylation"
## "RNA 3' uridylation"
## "cellular response to triglyceride"
## "cellular response to genistein"
## "regulation of zinc ion transport"
## "granulocyte colony-stimulating factor production"
## "protein transport within extracellular region"
## "endoplasmic reticulum tubular network maintenance"
## "negative regulation of podosome assembly"
## "chemokine (C-C motif) ligand 11 production"
## "proximal/distal pattern formation involved in metanephric nephron development"
## "cellular lactam catabolic process"
## "signal transduction involved in cell cycle checkpoint"
## "purine-containing compound biosynthetic process"
## "interleukin-18 secretion"
## "amino acid homeostasis"
## "regulation of nitric oxide metabolic process"
## "cholesterol ester hydrolysis involved in cholesterol transport"
## "mesendoderm migration"
## "regulation of establishment of blood-brain barrier"
## "cellular response to azide"
## "mitochondrial double-strand break repair via homologous recombination"
## "inorganic cation import across plasma membrane"
## "folate transmembrane transport"
## "retrograde trans-synaptic signaling by nitric oxide, modulating synaptic transmis
## "trans-synaptic signaling by nitric oxide, modulating synaptic transmission"
## "negative regulation of ERBB4 signaling pathway"
## "positive regulation of collagen catabolic process"
## "negative regulation of arachidonic acid secretion"
## "positive regulation of CD4-positive, alpha-beta T cell costimulation"
## "negative regulation of D-amino-acid oxidase activity"
## "negative regulation of fermentation"

```

```

## "regulation of ERBB signaling pathway"
## "positive regulation of store-operated calcium channel activity"
## "organonitrogen compound catabolic process"
## "cellular response to ergosterol"
## "XDP catabolic process"
## "beta-carotene metabolic process"
## "positive regulation of meiotic cell cycle phase transition"
## "positive regulation of sphingolipid mediated signaling pathway"
## "positive regulation of calcium ion import into sarcoplasmic reticulum"
## "positive regulation of hepatocyte growth factor receptor signaling pathway"
## "negative regulation of acrosome reaction"
## "negative regulation of intracellular calcium activated chloride channel activity"
## "positive regulation of exo-alpha-sialidase activity"
## "negative regulation of renal phosphate excretion"
## "cellular response to L-arginine"
## "regulation of ATP metabolic process"
## "regulation of hemopoiesis"
## "negative regulation of hemopoiesis"
## "regulation of viral life cycle"
## "negative regulation of establishment of T cell polarity"
## "monounsaturated fatty acid catabolic process"
## "regulation of epithelial cell apoptotic process"
## "regulation of serine C-palmitoyltransferase activity"
## "positive regulation of calcium ion transmembrane transport"
## "positive regulation of somatic stem cell division"
## "regulation of AMPA glutamate receptor clustering"
## "negative regulation of protein serine/threonine phosphatase activity"
## "positive regulation of protein serine/threonine phosphatase activity"
## "negative regulation of aspartic-type peptidase activity"
## "positive regulation of retrograde transport, endosome to Golgi"
## "positive regulation of fertilization"
## "regulation of cellular response to manganese ion"
## "negative regulation of protein localization to cell leading edge"
## "cartilage homeostasis"
## "paranodal junction maintenance"
## "histone H2A-T120 phosphorylation"
## "lipid transport across blood brain barrier"
## "hyaloid vascular plexus regression"
## "dark adaptation"
## "mitotic spindle microtubule depolymerization"
## "positive regulation of mammary stem cell proliferation"
## "positive regulation of fatty acid transport"
## "positive regulation of fibronectin-dependent thymocyte migration"
## "positive regulation of eosinophil migration"
## "regulation of glycogen (starch) synthase activity"
## "negative regulation of CD8-positive, alpha-beta T cell proliferation"
## "positive regulation of interleukin-4-dependent isotype switching to IgE isotypes"
## "regulation of thyroid hormone generation"
## "negative regulation of miRNA catabolic process"
## "histone H3-T3 phosphorylation involved in chromosome passenger complex localization"
## "negative regulation of Rho guanyl-nucleotide exchange factor activity"
## "nicotinate transport"
## "miRNA metabolic process"
## "leukocyte cell-cell adhesion"

```

```

##      "negative regulation of RNA export from nucleus"
##      "metanephric nephron tubule morphogenesis"
##      "excitatory synapse assembly"
##      "positive regulation of dopamine receptor signaling pathway"
##      "fatty-acyl-CoA transport"
##      "peroxisomal membrane transport"
##      "very long-chain fatty-acyl-CoA catabolic process"
##      "regulation of arginine metabolic process"
##      "cilium or flagellum-dependent cell motility"
##      "ovarian follicle atresia"
##      "negative regulation of T cell mediated cytotoxicity"
##      "glandular epithelial cell differentiation"
##      "tRNA wobble adenosine to inosine editing"
##      "CD8-positive, alpha-beta T cell differentiation involved in immune response"
##      "detection of tumor cell"
##      "granuloma formation"
##      "regulation of cellular extravasation"
##      "lymph circulation"
##      "regulation of systemic arterial blood pressure mediated by a chemical signal"
##      "starch catabolic process"
##      "dADP phosphorylation"
##      "dGDP phosphorylation"
##      "glutamate catabolic process via 2-oxoglutarate"
##      "AMP phosphorylation"
##      "ATP generation from ADP"
##      "sperm individualization"
##      "mating"
##      "10-formyltetrahydrofolate metabolic process"
##      "putrescine biosynthetic process"
##      "axis specification"
##      "regulation of platelet-derived growth factor receptor signaling pathway"
##      "cholesterol transport involved in cholesterol storage"
##      "fructose transmembrane transport"
##      "guanine transport"
##      "N-terminal peptidyl-L-cysteine N-palmitoylation"
##      "hexose metabolic process"
##      "nitrogen utilization"
##      "roof plate formation"
##      "cerebellar molecular layer morphogenesis"
##      "regulation of transcription from RNA polymerase II promoter involved in spinal co
##      "melatonin biosynthetic process"
##      "fructoselysine metabolic process"
##      "regulation of myeloid dendritic cell activation"
##      "DNA methylation on adenine"
##      "saturated monocarboxylic acid metabolic process"
##      "unsaturated monocarboxylic acid metabolic process"
##      "hypoxanthine transport"
##      "thymine transport"
##      "protein deglutamylation"
##      "protein branching point deglutamylation"
##      "monocyte extravasation"
##      "pore formation in membrane of other organism"
##      "response to erythropoietin"
##      "cleavage furrow ingression"

```

```

## "triglyceride acyl-chain remodeling"
## "D-alanine transport"
## "intercellular bridge organization"
## "macromolecule glycosylation"
## "negative regulation of growth of symbiont on or near host surface"
## "regulation of T-helper 1 cell differentiation"
## "negative regulation of glial cell differentiation"
## "spermine catabolic process"
## "nicotinamide nucleotide metabolic process"
## "ceramide catabolic process"
## "positive regulation of eye pigmentation"
## "epinephrine transport"
## "compound eye development"
## "host-mediated regulation of intestinal microbiota composition"
## "negative regulation of NK T cell activation"
## "methotrexate transport"
## "ingression involved in gastrulation with mouth forming second"
## "negative regulation of phagocytosis, engulfment"
## "negative regulation of N-terminal protein palmitoylation"
## "dichotomous subdivision of terminal units involved in ureteric bud branching"
## "establishment of glial blood-brain barrier"
## "CDP phosphorylation"
## "dAMP phosphorylation"
## "CMP phosphorylation"
## "dCMP phosphorylation"
## "GDP phosphorylation"
## "UDP phosphorylation"
## "dCDP phosphorylation"
## "TDP phosphorylation"
## "regulation of neuron projection regeneration"
## "extracellular exosome assembly"
## "nephrogenic mesenchyme development"
## "nephron tubule formation"
## "metanephric capsule development"
## "metanephric glomerular mesangial cell differentiation"
## "metanephric capsule specification"
## "regulation of superoxide metabolic process"
## "postsynaptic density organization"
## "defense response to other organism"
## "trans-Golgi network membrane organization"
## "intestinal folate absorption"
## "regulation of DNA strand resection involved in replication fork processing"
## "positive regulation of plasma membrane bounded cell projection assembly"
## "negative regulation of cellular response to heat"
## "negative regulation of glucocorticoid mediated signaling pathway"
## "sarcosine catabolic process"
## "positive regulation of spermidine biosynthetic process"
## "positive regulation of lymphangiogenesis"
## "negative regulation of meiotic cell cycle phase transition"
## "negative regulation of keratinocyte apoptotic process"
## "positive regulation of prolactin signaling pathway"
## "negative regulation of primary amine oxidase activity"
## "negative regulation of eosinophil activation"
## "negative regulation of activation of Janus kinase activity"

```

```

##      "urate homeostasis"
##      "regulation of cardiac muscle hypertrophy in response to stress"
##      "negative regulation of intestinal absorption"
##      "fructose import across plasma membrane"
##      "negative regulation of glutamate metabolic process"
##      "negative regulation of eosinophil migration"
##      "positive regulation of tendon cell differentiation"
##      "naphthalene metabolic process"
##      "positive regulation of TORC1 signaling"
##      "positive regulation of IP-10 production"
##      "protein K69-linked ufmylation"
##      "primary heart field specification"
##      "sinoatrial valve morphogenesis"
##      "negative regulation of protein localization to cell surface"
##      "positive regulation of cell cycle G1/S phase transition"
##      "sulfur amino acid biosynthetic process"
##      "tRNA 3'-terminal CCA addition"
##      "negative regulation of antigen processing and presentation"
##      "positive regulation of immunoglobulin biosynthetic process"
##      "natural killer cell inhibitory signaling pathway"
##      "uridine catabolic process"
##      "UDP catabolic process"
##      "transposition, DNA-mediated"
##      "patched ligand maturation"
##      "positive regulation of muscle hyperplasia"
##      "tyrosine transport"
##      "arsonoacetate metabolic process"
##      "D-amino acid catabolic process"
##      "L-alanine catabolic process, by transamination"
##      "urea metabolic process"
##      "cerebellar granular layer maturation"
##      "radial glia guided migration of cerebellar granule cell"
##      "negative regulation of nuclease activity"
##      "riboflavin transport"
##      "interleukin-13 production"
##      "interleukin-5 production"
##      "S-methylmethionine metabolic process"
##      "lipid oxidation"
##      "plasma lipoprotein particle oxidation"
##      "oxidative single-stranded DNA demethylation"
##      "mitophagy by induced vacuole formation"
##      "lactate transmembrane transport"
##      "D-serine catabolic process"
##      "cellular response to mycotoxin"
##      "nitric oxide-cGMP-mediated signaling pathway"
##      "nitrate metabolic process"
##      "cellular amide metabolic process"
##      "MAPK export from nucleus"
##      "MAPK phosphatase export from nucleus, leptomycin B sensitive"
##      "extracellular polysaccharide biosynthetic process"
##      "ADP catabolic process"
##      "ether lipid metabolic process"
##      "IDP catabolic process"
##      "establishment of animal organ orientation"

```

```

## "male meiosis chromosome separation"
## "detoxification of nitrogen compound"
## "D-alanine catabolic process"
## "mammary gland bud morphogenesis"
## "lymphatic endothelial cell fate commitment"
## "bone trabecula morphogenesis"
## "oncosis"
## "cellular response to interleukin-11"
## "positive regulation of chemokine (C-C motif) ligand 1 production"
## "cellular response to dithiothreitol"
## "regulation of protein serine/threonine phosphatase activity"
## "cell communication involved in cardiac conduction"
## "regulation of cell motility involved in somitogenic axis elongation"
## "response to alcohol"
## "cell aggregation"
## "cardiac endothelial to mesenchymal transition"
## "regulation of engulfment of apoptotic cell"
## "positive regulation of non-canonical Wnt signaling pathway via JNK cascade"
## "negative regulation of convergent extension involved in axis elongation"
## "nucleoside phosphate catabolic process"
## "pyruvate transmembrane transport"
## "zeaxanthin biosynthetic process"
## "regulation of mitochondrial DNA metabolic process"
## "regulation of inward rectifier potassium channel activity"
## "regulation of cyclic nucleotide-gated ion channel activity"
## "positive regulation of histone H3-K27 trimethylation"
## "regulation of retina development in camera-type eye"
## "regulation of melanosome transport"
## "positive regulation of protein localization to ciliary membrane"
## "regulation of collagen fibril organization"
## "positive regulation of otic vesicle morphogenesis"
## "regulation of adipose tissue development"
## "regulation of myofibroblast contraction"
## "negative regulation of canonical Wnt signaling pathway involved in osteoblast dif
## "invadopodium organization"
## "negative regulation of postsynaptic density organization"
## "signal clustering"
## "positive regulation of lymphocyte migration"
## "regulation of dendritic cell differentiation"
## "sulfate assimilation"
## "negative regulation of biosynthetic process"
## "lipid phosphorylation"
## "response to UV-A"
## "peptide metabolic process"
## "protein complex oligomerization"
## "trehalose metabolism in response to stress"
## "negative regulation of smooth muscle cell chemotaxis"
## "hindlimb morphogenesis"
## "positive regulation of hydrogen peroxide-induced cell death"
## "behavioral fear response"
## "negative regulation of filopodium assembly"
## "cellular response to cobalt ion"
## "globoside biosynthetic process"
## "histamine biosynthetic process"

```

"acrosome matrix dispersal"
 ## "leukocyte mediated immunity"
 ## "positive regulation of myeloid leukocyte differentiation"
 ## "involuntary skeletal muscle contraction"
 ## "histidine metabolic process"
 ## "purine nucleobase transport"
 ## "detection of light stimulus"
 ## "regulation of collagen catabolic process"
 ## "CMP-N-acetylneuraminate transmembrane transport"
 ## "polyol transport"
 ## "amine transport"
 ## "pyrimidine nucleobase transport"
 ## "tetracycline transport"
 ## "cerebellar granular layer morphogenesis"
 ## "medullary reticular formation development"
 ## "hindbrain tangential cell migration"
 ## "stabilization of membrane potential"
 ## "regulation of polarized epithelial cell differentiation"
 ## "negative regulation of gonadotropin secretion"
 ## "toll-like receptor 5 signaling pathway"
 ## "fertilization, exchange of chromosomal proteins"
 ## "interleukin-13-mediated signaling pathway"
 ## "response to interleukin-13"
 ## "cellular modified amino acid catabolic process"
 ## "mating plug formation"
 ## "plasma membrane ATP synthesis coupled electron transport"
 ## "negative regulation of GTP cyclohydrolase I activity"
 ## "DNA hypermethylation"
 ## "intermediate filament-based process"
 ## "purine ribonucleoside catabolic process"
 ## "carboxylic acid transport"
 ## "autonomic nervous system development"
 ## "parasympathetic nervous system development"
 ## "positive regulation of behavior"
 ## "post-embryonic digestive tract morphogenesis"
 ## "efferent axon development in a lateral line nerve"
 ## "interleukin-1 alpha secretion"
 ## "positive regulation of transport"
 ## "meiotic sister chromatid cohesion"
 ## "proprioception involved in equilibrioception"
 ## "histamine uptake"
 ## "positive regulation of cytolysis in other organism"
 ## "cardiac muscle tissue growth"
 ## "seminal vesicle epithelium development"
 ## "alveolar primary septum development"
 ## "retrotrapezoid nucleus neuron differentiation"
 ## "negative regulation of neuroblast migration"
 ## "cellular response to cortisol stimulus"
 ## "cellular response to alkaline pH"
 ## "vitamin A import"
 ## "pyrimidine-containing compound transmembrane transport"
 ## "eosinophil migration"
 ## "regulation of establishment of planar polarity"
 ## "cap2 mRNA methylation"


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##      "spinal cord motor neuron migration"
##      "symmetric cell division"
##      "zinc ion import into synaptic vesicle"
##      "positive regulation of uterine smooth muscle relaxation"
##      "mesenchymal cell differentiation involved in bone development"
##      "regulation of copper ion transmembrane transport"
##      "regulation of protein localization to synapse"
##      "negative regulation of lens fiber cell differentiation"
##      "regulation of skeletal muscle acetylcholine-gated channel clustering"
##      "negative regulation of skeletal muscle acetylcholine-gated channel clustering"
##      "negative regulation of protein localization to cell cortex"
##      "purine nucleobase transmembrane transport"
##      "carboxylic acid transmembrane transport"
##      "negative regulation of maintenance of permeability of blood-brain barrier"
##      "positive regulation of membrane permeability"
##      "gap junction-mediated intercellular transport"
##      "cellular stress response to acidic pH"
##      "regulation of ceramide biosynthetic process"
##      "negative regulation of ovarian follicle development"
##      "positive regulation of neutrophil extravasation"
##      "negative regulation of pre-miRNA processing"
##      "positive regulation of lens epithelial cell proliferation"
##      "negative regulation of transcription elongation by RNA polymerase I"
##      "membrane fission"
##      "preassembly of GPI anchor in ER membrane"
##      "B cell differentiation"
##      "auditory receptor cell morphogenesis"
##      "tRNA wobble cytosine modification"
##      "regulation of T cell cytokine production"
##      "corneocyte development"
##      "cellular cadmium ion homeostasis"
##      "response to nickel cation"
##      "negative regulation of gliogenesis"
##      "nitrite transport"
##      "urate transport"
##      "GDP-fucose transmembrane transport"
##      "UDP-xylose transmembrane transport"
##      "basic amino acid transport"
##      "norepinephrine transport"
##      "polyprenol catabolic process"
##      "beta-alanine metabolic process"
##      "short-chain fatty acid catabolic process"
##      "GABAergic neuron differentiation in basal ganglia"
##      "regulation of vitamin metabolic process"
##      "interleukin-3 production"
##      "negative regulation of MyD88-dependent toll-like receptor signaling pathway"
##      "carbohydrate transmembrane transport"
##      "sequestering of BMP from receptor via BMP binding"
##      "cytokine metabolic process"
##      "GDP-L-fucose salvage"
##      "regulation of amyloid precursor protein biosynthetic process"
##      "protein palmitoleylation"
##      "MHC class II biosynthetic process"
##      "L-methylmalonyl-CoA metabolic process"

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## "interleukin-1 beta biosynthetic process"
## "norepinephrine uptake"
## "granulosa cell development"
## "regulation of spongiotrophoblast cell proliferation"
## "fungiform papilla development"
## "positive regulation of transcription from RNA polymerase II promoter in response"
## "regulation of enamel mineralization"
## "divalent metal ion transport"
## "divalent metal ion export"
## "regulation of MAPK export from nucleus"
## "protein localization to vacuole"
## "SA node cell to atrial cardiac muscle cell signaling"
## "AV node cell to bundle of His cell signaling"
## "regulation of neutrophil chemotaxis"
## "negative regulation of neural crest formation"
## "phagosome-lysosome fusion involved in apoptotic cell clearance"
## "walking behavior"
## "renal tubular secretion"
## "cerebellar neuron development"
## "calmodulin dependent kinase signaling pathway"
## "regulation of heart looping"
## "positive regulation of histone H3-K27 acetylation"
## "L-arginine transport"
## "regulation of response to DNA damage checkpoint signaling"
## "response to chloroquine"
## "negative regulation of Notch signaling pathway involved in somitogenesis"
## "positive regulation of hexokinase activity"
## "response to dopamine"
## "positive regulation of atrial cardiac muscle cell action potential"
## "positive regulation of voltage-gated potassium channel activity involved in atrial"
## "positive regulation of regulation of vascular smooth muscle cell membrane depolar"
## "negative regulation of neuronal action potential"
## "negative regulation of type B pancreatic cell proliferation"
## "negative regulation of macroautophagy by TORC1 signaling"
## "positive regulation of cell proliferation in midbrain"
## "protein depalmitoylation"
## "cellular response to glial cell derived neurotrophic factor"
## "tRNA demethylation"
## "regulation of animal organ morphogenesis"
## "negative regulation of fibroblast growth factor receptor signaling pathway involv"
## "positive regulation of unsaturated fatty acid biosynthetic process"
## "canalicular bile acid transport"
## "positive regulation of sodium:proton antiporter activity"
## "negative regulation of collateral sprouting of intact axon in response to injury"
## "positive regulation of transcription from RNA polymerase II promoter by glucose"
## "immune response-inhibiting cell surface receptor signaling pathway"
## "norepinephrine metabolic process"
## "allantoin catabolic process"
## "negative regulation of exit from mitosis"
## "detection of chemical stimulus involved in sensory perception of sour taste"
## "positive regulation of immune system process"
## "positive regulation of cilium movement"
## "tyrosine metabolic process"
## "cellular modified amino acid metabolic process"

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## "threonine transport"
## "cell wall macromolecule catabolic process"
## "regulation of lipid transport"
## "B cell receptor transport into membrane raft"
## "chemokine receptor transport out of membrane raft"
## "negative regulation of transforming growth factor beta3 production"
## "positive regulation of toll-like receptor 7 signaling pathway"
## "hydroxyproline transport"
## "detection of bacterial lipoprotein"
## "cellular macromolecule catabolic process"
## "protection of DNA demethylation of female pronucleus"
## "extrathymic T cell selection"
## "positive regulation of TRAIL biosynthetic process"
## "positive regulation of lipid metabolic process"
## "uridine metabolic process"
## "stilbene catabolic process"
## "negative regulation of positive chemotaxis"
## "hepoxilin metabolic process"
## "regulation of sequestering of calcium ion"
## "homologous chromosome movement towards spindle pole involved in homologous chromo
## "elastin catabolic process"
## "positive regulation of cytosolic calcium ion concentration involved in egg activa
## "regulation of meiosis I"
## "glycine secretion, neurotransmission"
## "N-acylphosphatidylethanolamine metabolic process"
## "regulation of neutrophil mediated cytotoxicity"
## "conversion of methionyl-tRNA to N-formyl-methionyl-tRNA"
## "nephron morphogenesis"
## "glomerular parietal epithelial cell differentiation"
## "regulation of branching involved in ureteric bud morphogenesis"
## "mesenchymal stem cell proliferation"
## "urea homeostasis"
## "ncRNA transcription"
## "negative regulation of inflammatory response to wounding"
## "regulation of cobalamin metabolic process"
## "negative regulation of lymphocyte chemotaxis"
## "leukotriene A4 metabolic process"
## "ceramide 1-phosphate transport"
## "positive regulation of protein maturation"
## "basic amino acid transmembrane transport"
## "negative regulation of Wnt signaling pathway involved in digestive tract morphogen
## "lipoxin biosynthetic process"
## "lipoxin B4 biosynthetic process"
## "histone methylation"
## "metanephric epithelium development"
## "positive regulation of viral entry into host cell"
## "tryptophan metabolic process"
## "embryonic forelimb morphogenesis"
## "erythrocyte development"
## "heterotypic cell-cell adhesion"
## "erythrocyte maturation"
## "maintenance of animal organ identity"
## "positive regulation of protein polymerization"
## "anterior head development"

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##      "tongue development"
##      "hypochlorous acid biosynthetic process"
##      "B-1a B cell differentiation"
##      "regulation of systemic arterial blood pressure by aortic arch baroreceptor feedback"
##      "dADP biosynthetic process"
##      "polyphosphate metabolic process"
##      "ganglion mother cell fate determination"
##      "regulation of rhodopsin gene expression"
##      "sensory organ boundary specification"
##      "biotin transport"
##      "pantothenate transmembrane transport"
##      "peptidyl-glutamic acid modification"
##      "response to pheromone"
##      "pentose metabolic process"
##      "pentose catabolic process"
##      "retinol transport"
##      "male pronucleus assembly"
##      "positive regulation of hippo signaling"
##      "positive regulation of SNARE complex assembly"
##      "osteoclast maturation"
##      "zonula adherens assembly"
##      "regulation of phosphorus metabolic process"
##      "quorum sensing involved in interaction with host"
##      "positive regulation of intestinal epithelial structure maintenance"
##      "fibroblast growth factor receptor signaling pathway involved in neural plate anterior neural fold development"
##      "taste bud development"
##      "establishment or maintenance of monopolar cell polarity"
##      "connective tissue development"
##      "positive regulation of erythrocyte enucleation"
##      "sodium-dependent organic cation transport"
##      "negative regulation of transmembrane receptor protein serine/threonine kinase signaling pathway"
##      "regulation of high-density lipoprotein particle assembly"
##      "positive regulation of glomerulus development"
##      "regulation of intrinsic apoptotic signaling pathway by p53 class mediator"
##      "positive regulation of lamellipodium organization"
##      "regulation of nuclear migration along microtubule"
##      "negative regulation of amacrine cell differentiation"
##      "negative regulation of adipose tissue development"
##      "response to gold nanoparticle"
##      "regulation of endocannabinoid signaling pathway"
##      "regulation of fibroblast growth factor receptor signaling pathway involved in neurite outgrowth"
##      "negative regulation of barbed-end actin filament capping"
##      "photoreceptor cell maintenance"
##      "platelet activating factor biosynthetic process"
##      "regulation of actin filament polymerization"
##      "response to calcium ion"
##      "cell death"
##      "positive regulation of helicase activity"
##      "interferon-beta production"
##      "oxidative single-stranded RNA demethylation"
##      "neurotransmitter biosynthetic process"
##      "positive regulation of synaptic transmission, glutamatergic"
##      "autophagy"
##      "mitral valve development"

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##      "tricuspid valve development"
##      "septum primum development"
##      "nucleotide catabolic process"
##      "cobalamin biosynthetic process"
##      "molybdate ion transport"
##      "leucine transport"
##      "inorganic diphosphate transport"
##      "mitochondria-nucleus signaling pathway"
##      "negative regulation of interleukin-1 alpha production"
##      "embryonic heart tube elongation"
##      "carboxylic acid catabolic process"
##      "organophosphate catabolic process"
##      "lateral mesoderm formation"
##      "spontaneous exocytosis of neurotransmitter"
##      "positive regulation of calcium-independent cell-cell adhesion"
##      "negative regulation of cell growth involved in contact inhibition"
##      "regulation of white fat cell proliferation"
##      "negative regulation of transforming growth factor beta production"
##      "atrial cardiac muscle cell to AV node cell communication by electrical coupling"
##      "bundle of His cell to Purkinje myocyte communication by electrical coupling"
##      "Purkinje myocyte to ventricular cardiac muscle cell communication by electrical coupling"
##      "positive regulation of mRNA modification"
##      "glutamate homeostasis"
##      "intermicrovillar adhesion"
##      "multi organism cell adhesion"
##      "regulation of Purkinje myocyte action potential"
##      "endosome to plasma membrane protein transport"
##      "negative regulation of hippocampal neuron apoptotic process"
##      "regulation of renin secretion into blood stream"
##      "negative regulation of glutamate receptor signaling pathway"
##      "positive regulation of engulfment of apoptotic cell"
##      "regulation of autophagosome maturation"
##      "negative regulation of lung ciliated cell differentiation"
##      "positive regulation of lung goblet cell differentiation"
##      "negative regulation of erythrocyte apoptotic process"
##      "protein localization to photoreceptor connecting cilium"
##      "positive regulation of protein oxidation"
##      "vasomotion"
##      "anti-Mullerian hormone signaling pathway"
##      "positive regulation of pancreatic stellate cell proliferation"
##      "negative regulation of vasculogenesis"
##      "lipoxin A4 biosynthetic process"
##      "pyridoxal phosphate biosynthetic process"
##      "negative regulation of dendritic cell cytokine production"
##      "negative regulation of FasL biosynthetic process"
##      "negative regulation of complement activation, lectin pathway"
##      "gamma-aminobutyric acid receptor clustering"
##      "mitochondrial RNA metabolic process"
##      "nitric oxide production involved in inflammatory response"
##      "negative regulation of T cell antigen processing and presentation"
##      "positive regulation of natural killer cell cytokine production"
##      "phosphatidylserine catabolic process"
##      "asparagine transport"
##      "photoreceptor cell morphogenesis"

```

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## "aromatic amino acid family metabolic process"
## "deoxyribonucleoside monophosphate catabolic process"
## "riboflavin biosynthetic process"
## "FMN biosynthetic process"
## "cellular response to iron ion starvation"
## "formate transport"
## "mannitol transport"
## "putrescine transport"
## "somatic motor neuron differentiation"
## "trochlear nerve formation"
## "locus ceruleus development"
## "olfactory lobe development"
## "gonadotropin secretion"
## "negative regulation of granulocyte macrophage colony-stimulating factor production"
## "negative regulation of mononuclear cell proliferation"
## "asparagine catabolic process via L-aspartate"
## "L-lysine catabolic process to acetyl-CoA via L-pipecolate"
## "toll-like receptor 10 signaling pathway"
## "negative regulation of interferon-beta secretion"
## "embryonic cleavage"
## "pore formation in membrane of other organism during symbiotic interaction"
## "positive regulation of interleukin-5 biosynthetic process"
## "regulation of lipoprotein metabolic process"
## "regulation of corticotropin secretion"
## "negative regulation of corticotropin secretion"
## "disruption by host of symbiont cells"
## "positive regulation of amino acid transport"
## "regulation of transcription involved in lymphatic endothelial cell fate commitment"
## "cell migration involved in heart development"
## "positive regulation of triglyceride lipase activity"
## "urea transmembrane transport"
## "oxygen metabolic process"
## "adenylate cyclase-activating adrenergic receptor signaling pathway involved in calcium release"
## "L-lysine import across plasma membrane"
## "L-ornithine import across plasma membrane"
## "negative regulation of corticotropin-releasing hormone receptor activity"
## "benzoyl-CoA metabolic process"
## "positive regulation of protein depolymerization"
## "positive regulation of relaxation of cardiac muscle"
## "positive regulation of inward rectifier potassium channel activity"
## "negative regulation of membrane hyperpolarization"
## "negative regulation of potassium ion export across plasma membrane"
## "negative regulation of antigen processing and presentation of endogenous peptide antigen"
## "positive regulation of endothelial cell-matrix adhesion via fibronectin"
## "negative regulation of membrane repolarization during ventricular cardiac muscle contraction"
## "regulation of male germ cell proliferation"
## "positive regulation of glutamine transport"
## "positive regulation of gamma-delta T cell activation involved in immune response"
## "malonyl-CoA catabolic process"
## "nonassociative learning"
## "positive regulation of myoblast differentiation"
## "positive regulation of RNA interference"
## "stress-activated MAPK cascade"
## "response to nutrient levels"

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##      "positive regulation of cardioblast proliferation"
##      "lactosylceramide biosynthetic process"
##      "noradrenergic neuron fate commitment"
##      "purine nucleobase catabolic process"
##      "thymidine catabolic process"
##      "melanin biosynthetic process from tyrosine"
##      "neuroblast fate determination"
##      "menaquinone biosynthetic process"
##      "detection of gravity"
##      "specification of animal organ identity"
##      "regulation of microtubule nucleation"
##      "iodide transport"
##      "nucleoside transport"
##      "uridine transport"
##      "beta-alanine biosynthetic process"
##      "vestibular nucleus development"
##      "monocyte homeostasis"
##      "pronephric nephron tubule development"
##      "thiamine diphosphate metabolic process"
##      "vitamin K biosynthetic process"
##      "glucoside transport"
##      "regulation of cholesterol biosynthetic process"
##      "negative regulation of complement activation, alternative pathway"
##      "detection of mechanical stimulus involved in sensory perception"
##      "regulation of timing of subpallium neuron differentiation"
##      "ureteric bud elongation"
##      "lung neuroendocrine cell differentiation"
##      "stomach neuroendocrine cell differentiation"
##      "carotid body glomus cell differentiation"
##      "negative regulation of mesenchymal cell apoptotic process involved in mesonephric
##      "cellular response to cholesterol"
##      "macromolecule depalmitoylation"
##      "regulation of carbohydrate metabolic process by regulation of transcription from
##      "regulation of store-operated calcium channel activity"
##      "nucleoside transmembrane transport"
##      "positive regulation of hypoxia-inducible factor-1alpha signaling pathway"
##      "regulation of sperm capacitation"
##      "negative regulation of electron transfer activity"
##      "negative regulation of fatty acid beta-oxidation using acyl-CoA dehydrogenase"
##      "positive regulation of platelet formation"
##      "ceramide phosphoethanolamine biosynthetic process"
##      "eosinophil homeostasis"
##      "basophil homeostasis"
##      "canonical Wnt signaling pathway involved in metanephric kidney development"
##      "regulation of cardiac muscle cell action potential involved in regulation of cont
##      "melanosome assembly"
##      "response to interleukin-1"
##      "negative regulation of retinoic acid receptor signaling pathway"
##      "meiotic DNA double-strand break formation"
##      "male germ cell proliferation"
##      "NMDA selective glutamate receptor signaling pathway"
##      "glandular epithelial cell maturation"
##      "regulation of cilium movement"
##      "asparagine metabolic process"

```

```

## "acylglycerol metabolic process"
## "mRNA localization resulting in posttranscriptional regulation of gene expression"
## "regulation of acetylcholine secretion, neurotransmission"
## "sialic acid transport"
## "purine ribonucleotide transport"
## "nuclear migration along microtubule"
## "P granule organization"
## "ER-dependent peroxisome organization"
## "spermine acetylation"
## "putrescine acetylation"
## "protein localization to myelin sheath abaxonal region"
## "cellular response to interleukin-13"
## "peptidyl-histidine dephosphorylation"
## "sodium-independent organic anion transport"
## "regulation of ion transport"
## "nor-spermidine metabolic process"
## "negative regulation of lyase activity"
## "acylglycerol homeostasis"
## "colon epithelial cell migration"
## "cellular response to growth hormone stimulus"
## "cell motility in response to calcium ion"
## "response to mitochondrial depolarisation"
## "spontaneous synaptic transmission"
## "neurotransmitter receptor cycle"
## "postsynaptic neurotransmitter receptor cycle"
## "ER-dependent peroxisome localization"
## "negative regulation of heart looping"
## "negative regulation of cardiac chamber formation"
## "response to fenofibrate"
## "glycine import across plasma membrane"
## "presynaptic active zone assembly"
## "glial cell proliferation"
## "mitotic recombination"
## "cellular response to nitrite"
## "response to norepinephrine"
## "positive regulation of mitochondrial DNA metabolic process"
## "positive regulation of muscle tissue development"
## "positive regulation of glomerular visceral epithelial cell apoptotic process"
## "cellular response to resveratrol"
## "positive regulation of progesterone biosynthetic process"
## "ERBB3 signaling pathway"
## "cytoplasm protein quality control by the ubiquitin-proteasome system"
## "regulation of microvillus length"
## "muscle cell fate determination"
## "response to lead ion"
## "immune response in nasopharyngeal-associated lymphoid tissue"
## "tRNA C5-cytosine methylation"
## "type B pancreatic cell fate commitment"
## "egg activation"
## "regulation of collagen metabolic process"
## "negative regulation of phosphatidylcholine catabolic process"
## "negative regulation of intestinal phytosterol absorption"
## "negative regulation of toll-like receptor 7 signaling pathway"
## "plasma lipoprotein particle remodeling"

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##      "female pronucleus assembly"
##      "RNA repair"
##      "enterobactin transport"
##      "dolichyl monophosphate biosynthetic process"
##      "negative regulation of memory T cell differentiation"
##      "negative T cell selection"
##      "amide biosynthetic process"
##      "cellular amide catabolic process"
##      "regulation of gamma-delta T cell differentiation"
##      "negative regulation of intestinal cholesterol absorption"
##      "negative regulation of interleukin-1 alpha secretion"
##      "regulation of liquid surface tension"
##      "subpallium neuron fate commitment"
##      "ventral spinal cord interneuron fate determination"
##      "calcium activated phosphatidylserine scrambling"
##      "metanephric connecting tubule development"
##      "regulation of plasma lipoprotein particle levels"
##      "phosphatidylserine exposure on blood platelet"
##      "cap1 mRNA methylation"
##      "inorganic cation transmembrane transport"
##      "vesicle tethering to endoplasmic reticulum"
##      "positive regulation of cellular response to heat"
##      "regulation of cellular response to insulin stimulus"
##      "positive regulation of anion channel activity"
##      "regulation of superoxide dismutase activity"
##      "positive regulation of potassium ion export"
##      "negative regulation of anti-Mullerian hormone signaling pathway"
##      "response to polycyclic arene"
##      "response to L-arginine"
##      "arginine transmembrane transport"
##      "regulation of vascular smooth muscle cell dedifferentiation"
##      "retinal cell apoptotic process"
##      "regulation of oxidative phosphorylation uncoupler activity"
##      "positive regulation of eosinophil chemotaxis"
##      "positive regulation of dendritic cell chemotaxis"
##      "negative regulation of CD4-positive, alpha-beta T cell activation"
##      "negative regulation of chromosome organization"
##      "regulation of transcription from RNA polymerase II promoter by glucose"
##      "anterior compartment pattern formation"
##      "posterior compartment specification"
##      "sphingomyelin catabolic process"
##      "immune response-regulating signaling pathway"
##      "DNA modification"
##      "amino-acid betaine catabolic process"
##      "ethanolamine metabolic process"
##      "neuropeptide catabolic process"
##      "chemorepulsion involved in interneuron migration from the subpallium to the cortex"
##      "putrescine biosynthetic process from arginine"
##      "negative regulation of cell-cell adhesion mediated by integrin"
##      "glutathione transmembrane transport"
##      "genitalia morphogenesis"
##      "regulation of interleukin-8 biosynthetic process"
##      "regulation of granulocyte macrophage colony-stimulating factor biosynthetic process"
##      "mannan catabolic process"

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```

##      "regulation of muscle organ development"
##      "regulation of homocysteine metabolic process"
##      "dichotomous subdivision of terminal units involved in lung branching"
##      "response to heparin"
##      "mastication"
##      "epithelium migration"
##      "positive regulation of chylomicron remnant clearance"
##      "heme export"
##      "hematopoietic stem cell migration to bone marrow"
##      "learned vocalization behavior"
##      "sphingolipid translocation"
##      "intestinal hexose absorption"
##      "negative regulation of oligodendrocyte apoptotic process"
##      "negative regulation of G1/S transition of mitotic cell cycle by negative regulati
##      "negative regulation of relaxation of muscle"
##      "regulation of calcium ion transmembrane transport"
##      "regulation of lactation"
##      "response to 3-methylcholanthrene"
##      "regulation of granulosa cell apoptotic process"
##      "negative regulation of telomerase RNA reverse transcriptase activity"
##      "negative regulation of saliva secretion"
##      "hard palate morphogenesis"
##      "negative regulation of renal albumin absorption"
##      "positive regulation of interferon-beta production"
##      "RNA biosynthetic process"
##      "negative regulation of release of cytochrome c from mitochondria"
##      "negative regulation of ribosome biogenesis"
##      "cell proliferation in midbrain"
##      "sequestering of zinc ion"
##      "N-terminal protein amino acid modification"
##      "T cell proliferation involved in immune response"
##      "T cell tolerance induction"
##      "UDP-N-acetylglucosamine catabolic process"
##      "pyrimidine nucleobase catabolic process"
##      "uracil catabolic process"
##      "acetylcholine catabolic process"
##      "histidine transport"
##      "urea transport"
##      "prenylcysteine metabolic process"
##      "negative regulation of synaptic transmission, cholinergic"
##      "NAD transmembrane transport"
##      "indole metabolic process"
##      "neurotransmitter receptor biosynthetic process"
##      "deoxycytidine metabolic process"
##      "phosphorylated carbohydrate dephosphorylation"
##      "regulation of cardiac muscle tissue development"
##      "positive regulation of phospholipid translocation"
##      "cellular response to pH"
##      "cell proliferation in bone marrow"
##      "protein localization involved in establishment of planar polarity"
##      "malonate catabolic process"
##      "agmatine biosynthetic process"
##      "double-strand break repair via classical nonhomologous end joining"
##      "positive regulation of cellular response to hypoxia"

```

```

## "gentamycin metabolic process"
## "arsenate ion transmembrane transport"
## "negative regulation of calcium ion import into sarcoplasmic reticulum"
## "negative regulation of gap junction assembly"
## "positive regulation of interleukin-17 secretion"
## "positive regulation of phosphate transmembrane transport"
## "gastrulation"
## "toll-like receptor 9 signaling pathway"
## "negative regulation of delayed rectifier potassium channel activity"
## "vitamin B6 metabolic process"
## "antimicrobial humoral response"
## "neural retina development"
## "negative regulation of histone H3-K36 methylation"
## "negative regulation of tooth mineralization"
## "acetylcholine catabolic process in synaptic cleft"
## "pulmonary valve formation"
## "transcription elongation from mitochondrial promoter"
## "amino-acid betaine metabolic process"
## "glycosylceramide metabolic process"
## "oligopeptide transport"
## "cellular component disassembly involved in execution phase of apoptosis"
## "regulation of cytoplasmic mRNA processing body assembly"
## "skeletal muscle satellite cell proliferation"
## "esophagus smooth muscle contraction"
## "regulation of isoprenoid metabolic process"
## "muscle cell proliferation"
## "positive regulation of myeloid cell apoptotic process"
## "cell cycle comprising mitosis without cytokinesis"
## "toll-like receptor 6 signaling pathway"
## "coenzyme A transmembrane transport"
## "foramen ovale closure"
## "DNA rewinding"
## "chemokine biosynthetic process"
## "interleukin-13 biosynthetic process"
## "granulocyte macrophage colony-stimulating factor biosynthetic process"
## "regulation of vacuole organization"
## "connective tissue growth factor biosynthetic process"
## "N-acetylneuraminate biosynthetic process"
## "prevention of polyspermy"
## "drug transport across blood-nerve barrier"
## "detection of oxidative stress"
## "L-methionine salvage"
## "mitochondria-associated ubiquitin-dependent protein catabolic process"
## "AMP transport"
## "negative regulation of intracellular protein transport"
## "negative regulation of nodal signaling pathway involved in determination of latera
## "negative regulation of hematopoietic progenitor cell differentiation"
## "positive regulation of G1 to G0 transition"
## "cellular response to butyrate"
## "regulation of retrograde protein transport, ER to cytosol"
## "negative regulation of antifungal innate immune response"
## "fibronectin fibril organization"
## "positive regulation of invadopodium disassembly"
## "UDP-N-acetylglucosamine transmembrane transport"

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## "positive regulation of mesoderm development"
## "positive regulation of metanephric glomerular visceral epithelial cell development"
## "positive regulation of renal albumin absorption"
## "negative regulation of metanephric mesenchymal cell migration"
## "negative regulation of receptor catabolic process"
## "positive regulation of developmental growth"
## "positive regulation of intermediate filament depolymerization"
## "positive regulation of cellular respiration"
## "Sertoli cell proliferation"
## "histamine catabolic process"
## "salivary gland morphogenesis"
## "pyruvate oxidation"
## "regulation of gamma-aminobutyric acid secretion"
## "mRNA modification"
## "rhombomere development"
## "prenylcysteine catabolic process"
## "interleukin-15 production"
## "positive regulation of monophenol monooxygenase activity"
## "negative regulation of protein import into nucleus, translocation"
## "toll-like receptor 1 signaling pathway"
## "toll-like receptor 8 signaling pathway"
## "oligopeptide transmembrane transport"
## "T-helper 2 cell cytokine production"
## "positive regulation of mast cell activation by Fc-epsilon receptor signaling pathway"
## "regulation of fusion of sperm to egg plasma membrane"
## "regulation of follicle-stimulating hormone secretion"
## "negative regulation of timing of catagen"
## "response to defense-related host reactive oxygen species production"
## "vestibular reflex"
## "regulation of response to interferon-gamma"
## "blood vessel endothelial cell differentiation"
## "regulation of hair cycle by canonical Wnt signaling pathway"
## "negative regulation of protein K48-linked ubiquitination"
## "cellular response to vitamin K"
## "cellular response to type I interferon"
## "chemokine (C-C motif) ligand 5 production"
## "actin filament debranching"
## "negative regulation of protein glycosylation in Golgi"
## "negative regulation of bone trabecula formation"
## "regulation of lymphocyte chemotaxis"
## "positive regulation of melanosome transport"
## "regulation of cellular protein catabolic process"
## "negative regulation of VCP-NPL4-UFD1 AAA ATPase complex assembly"
## "polyuridylation-dependent mRNA catabolic process"
## "positive regulation of leukocyte apoptotic process"
## "positive regulation of fibroblast migration"
## "negative regulation of histone acetylation"
## "base-excision repair, AP site formation"
## "regulation of protein K48-linked deubiquitination"
## "glomerulus morphogenesis"
## "nephron tubule epithelial cell differentiation"
## "positive regulation of viral budding via host ESCRT complex"
## "mitochondrial RNA catabolic process"
## "defense response to tumor cell"

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##      "peptidyl-tyrosine sulfation"
##      "glucosylceramide biosynthetic process"
##      "xanthine catabolic process"
##      "thiamine diphosphate biosynthetic process"
##      "10-formyltetrahydrofolate catabolic process"
##      "ferrous iron transport"
##      "lead ion transport"
##      "creatine transmembrane transport"
##      "vitelline membrane formation"
##      "protein transport into membrane raft"
##      "gonad morphogenesis"
##      "RNA import into mitochondrion"
##      "insulin receptor internalization"
##      "regulation of circulating fibrinogen levels"
##      "adhesion of symbiont to host cell"
##      "regulation of endothelial cell differentiation"
##      "acylglycerol catabolic process"
##      "negative regulation of eye pigmentation"
##      "negative regulation of hepatocyte growth factor biosynthetic process"
##      "camera-type eye photoreceptor cell fate commitment"
##      "spleen trabecula formation"
##      "adrenal chromaffin cell differentiation"
##      "positive regulation of cardiac endothelial to mesenchymal transition"
##      "ferrous iron import"
##      "cellular response to sterol depletion"
##      "endocannabinoid signaling pathway"
##      "mitochondrial mRNA polyadenylation"
##      "dorsal spinal cord interneuron anterior axon guidance"
##      "positive regulation of transcription from RNA polymerase II promoter involved in I"
##      "ferrous iron export across plasma membrane"
##      "regulation of response to endoplasmic reticulum stress"
##      "negative regulation of inner ear receptor cell differentiation"
##      "positive regulation of bone mineralization"
##      "embryo development"
##      "ESCRT III complex assembly"
##      "spermatid development"
##      "phosphorylation"
##      "regulation of cardiac muscle contraction by regulation of the release of sequestered"
##      "dorsal aorta morphogenesis"
##      "calcium-independent cell-cell adhesion via plasma membrane cell-adhesion molecules"
##      "defense response to Gram-positive bacterium"
##      "negative regulation of zinc ion transmembrane import"
##      "detoxification of cadmium ion"
##      "response to alkaloid"
##      "dendritic spine morphogenesis"
##      "immunoglobulin heavy chain V-D-J recombination"
##      "ribosomal subunit export from nucleus"
##      "cell killing"
##      "activation of plasma proteins involved in acute inflammatory response"
##      "peptide secretion"
##      "corneocyte desquamation"
##      "positive regulation of metabolic process"
##      "regulation of mitochondrial fusion"
##      "regulation of eIF2 alpha phosphorylation by heme"

```

```

## "proteoglycan catabolic process"
## "S-adenosylmethionine cycle"
## "auditory receptor cell fate specification"
## "positive regulation of inner ear auditory receptor cell differentiation"
## "negative regulation of translational initiation by iron"
## "negative regulation of hemoglobin biosynthetic process"
## "chemical homeostasis"
## "detection of temperature stimulus involved in thermoception"
## "adipose tissue development"
## "positive regulation of fat cell proliferation"
## "negative regulation of hepatocyte differentiation"
## "specification of loop of Henle identity"
## "metanephric macula densa development"
## "metanephric DCT cell differentiation"
## "cellular response to methyl methanesulfonate"
## "regulation of actin cytoskeleton organization by cell-cell adhesion"
## "intestinal lipid absorption"
## "response to capsazepine"
## "positive regulation of cell communication by electrical coupling involved in card
## "negative regulation of hepatocyte growth factor receptor signaling pathway"
## "negative regulation of cellular response to vascular endothelial growth factor st
## "negative regulation of cystathionine beta-synthase activity"
## "negative regulation of epithelium regeneration"
## "atrioventricular canal morphogenesis"
## "regulation of cardiac neural crest cell migration involved in outflow tract morph
## "negative regulation of cornification"
## "regulation of cell proliferation involved in heart morphogenesis"
## "negative regulation of cellular response to hepatocyte growth factor stimulus"
## "regulation of interferon-gamma production"
## "glycine transport"
## "self proteolysis"
## "regulation of protein localization to nucleolus"
## "mRNA methylation"
## "drug transmembrane transport"
## "positive regulation of type III hypersensitivity"
## "positive regulation of type I hypersensitivity"
## "ubiquitin-dependent protein catabolic process via the multivesicular body sorting
## "inhibition of neuroepithelial cell differentiation"
## "IgG immunoglobulin transcytosis in epithelial cells mediated by FcRn immunoglobul
## "antigen processing and presentation of peptide antigen via MHC class II"
## "negative regulation of natural killer cell cytokine production"
## "growth plate cartilage chondrocyte proliferation"
## "CMP salvage"
## "serotonin transport"
## "pyrimidine nucleotide transport"
## "copulation"
## "lipoate biosynthetic process"
## "polarity specification of proximal/distal axis"
## "regulation of receptor biosynthetic process"
## "negative regulation of gamma-aminobutyric acid secretion"
## "positive regulation of serotonin secretion"
## "spinal cord patterning"
## "floor plate morphogenesis"
## "cell envelope organization"

```

"dicarboxylic acid metabolic process"
 ## "D-gluconate catabolic process"
 ## "UDP-glucuronate metabolic process"
 ## "axial mesodermal cell fate specification"
 ## "regulation of skeletal muscle tissue development"
 ## "negative regulation of transport"
 ## "detection of stimulus"
 ## "serotonin uptake"
 ## "cellular oligosaccharide catabolic process"
 ## "epiblast cell-extraembryonic ectoderm cell signaling involved in anterior/posterior
 ## "calcium activated phosphatidylcholine scrambling"
 ## "calcium activated galactosylceramide scrambling"
 ## "chemorepulsion of axon"
 ## "metanephric thick ascending limb development"
 ## "transforming growth factor beta receptor signaling pathway involved in primitive
 ## "regulation of thalamus size"
 ## "regulation of microtubule nucleation by Ran protein signal transduction"
 ## "positive regulation of histone H3-K9 dimethylation"
 ## "regulation of synaptic plasticity by receptor localization to synapse"
 ## "positive regulation of lateral motor column neuron migration"
 ## "regulation of protein localization to cilium"
 ## "positive regulation of aspartate secretion"
 ## "regulation of dense core granule exocytosis"
 ## "pyrimidine nucleotide import into mitochondrion"
 ## "regulation of anoikis"
 ## "negative regulation of signaling receptor activity"
 ## "positive regulation of transcription from RNA polymerase II promoter in response
 ## "noradrenergic neuron development"
 ## "octopamine biosynthetic process"
 ## "glucose-6-phosphate transport"
 ## "regulation of lateral pseudopodium assembly"
 ## "negative regulation of cellular metabolic process"
 ## "T cell secretory granule organization"
 ## "maintenance of protease location in mast cell secretory granule"
 ## "maintenance of granzyme B location in T cell secretory granule"
 ## "sequestering of extracellular ligand from receptor"
 ## "transforming growth factor beta activation"
 ## "indolalkylamine biosynthetic process"
 ## "negative regulation of muscle organ development"
 ## "inositol phosphorylation"
 ## "regulation of transcription from RNA polymerase II promoter involved in kidney dev
 ## "seminal vesicle morphogenesis"
 ## "neutrophil mediated killing of bacterium"
 ## "vesicle-mediated cholesterol transport"
 ## "negative regulation of establishment of blood-brain barrier"
 ## "L-arginine import across plasma membrane"
 ## "vascular endothelial cell response to fluid shear stress"
 ## "protein localization to axon"
 ## "regulation of phospholipase C activity"
 ## "positive regulation of mesenchymal stem cell proliferation"
 ## "NLRP1 inflammasome complex assembly"
 ## "regulation of adhesion of symbiont to host epithelial cell"
 ## "protein localization to nucleoplasm"
 ## "transcytosis"

```

##      "very long-chain fatty acid biosynthetic process"
##      "negative regulation of oxidative stress-induced neuron intrinsic apoptotic signal"
##      "chromatin-mediated maintenance of transcription"
##      "cellular response to ethanol"
##      "regulation of mRNA export from nucleus"
##      "cell differentiation involved in embryonic placenta development"
##      "natural killer cell proliferation"
##      "microglial cell activation involved in immune response"
##      "negative regulation of inositol phosphate biosynthetic process"
##      "positive regulation of inositol-polyphosphate 5-phosphatase activity"
##      "negative regulation of cerebellar granule cell precursor proliferation"
##      "phospholipase C-inhibiting G protein-coupled receptor signaling pathway"
##      "positive regulation of transforming growth factor beta1 production"
##      "plasma lipoprotein particle assembly"
##      "exocrine system development"
##      "protein alpha-1,2-demannosylation"
##      "T cell selection"
##      "regulation of retinal cell programmed cell death"
##      "thermoception"
##      "regulation of cell diameter"
##      "protein modification by small protein removal"
##      "protein localization to ciliary membrane"
##      "ferrous iron transmembrane transport"
##      "mitotic sister chromatid biorientation"
##      "aflatoxin B1 metabolic process"
##      "macrophage activation involved in immune response"
##      "lymphangiogenesis"
##      "cellular response to sorbitol"
##      "regulation of postsynaptic specialization assembly"
##      "interleukin-18 production"
##      "NLRP3 inflammasome complex assembly"
##      "interleukin-1 secretion"
##      "detection of hormone stimulus"
##      "positive regulation of histone H3-K27 methylation"
##      "regulation of lipoprotein lipase activity"
##      "division septum assembly"
##      "positive regulation of immune response to tumor cell"
##      "phospholipid transfer to membrane"
##      "zygotic determination of anterior/posterior axis, embryo"
##      "zygote asymmetric cell division"
##      "C-terminal protein-tyrosinylation"
##      "UDP-N-acetylgalactosamine metabolic process"
##      "vestibulocochlear nerve development"
##      "lateral geniculate nucleus development"
##      "chondroitin sulfate metabolic process"
##      "regulation of circadian sleep/wake cycle, REM sleep"
##      "NAD transport"
##      "regulation of killing of cells of other organism"
##      "positive regulation of sequestering of zinc ion"
##      "endoplasmic reticulum polarization"
##      "cerebellum vasculature development"
##      "actin filament bundle retrograde transport"
##      "positive regulation of lymphocyte apoptotic process"
##      "AV node cell-bundle of His cell adhesion involved in cell communication"

```



```

##      "cellular ammonia homeostasis"
##      "cellular creatinine homeostasis"
##      "cellular urea homeostasis"
##      "sperm motility"
##      "negative regulation of calcium ion binding"
##      "regulation of calcium-transporting ATPase activity"
##      "tarsal gland development"
##      "uterine gland development"
##      "regulation of intraciliary retrograde transport"
##      "mitochondrion-endoplasmic reticulum membrane tethering"
##      "positive regulation of protein localization to cell surface"
##      "positive regulation of isotype switching to IgG isotypes"
##      "toll-like receptor 2 signaling pathway"
##      "activation of phospholipase A2 activity by calcium-mediated signaling"
##      "branching involved in ureteric bud morphogenesis"
##      "pressure natriuresis"
##      "endocardium development"
##      "positive regulation of cell fate commitment"
##      "substance P catabolic process"
##      "calcitonin catabolic process"
##      "detection of wounding"
##      "protein C-linked glycosylation via 2'-alpha-mannosyl-L-tryptophan"
##      "spinal cord anterior/posterior patterning"
##      "pyramidal neuron differentiation"
##      "endothelin maturation"
##      "thermosensory behavior"
##      "negative regulation of ectodermal cell fate specification"
##      "positive regulation of growth of symbiont in host"
##      "cell wall disruption in other organism"
##      "stromal-epithelial cell signaling involved in prostate gland development"
##      "regulation of peroxisome size"
##      "lateral mesodermal cell differentiation"
##      "embryonic ectodermal digestive tract morphogenesis"
##      "negative regulation of axon extension involved in regeneration"
##      "leukocyte adhesive activation"
##      "right lung morphogenesis"
##      "metanephric nephron development"
##      "convergent extension involved in somitogenesis"
##      "regulation of plasma membrane sterol distribution"
##      "protein localization to cell leading edge"
##      "organelle disassembly"
##      "cellular response to bile acid"
##      "positive regulation of type B pancreatic cell proliferation"
##      "negative regulation of Wnt signaling pathway involved in dorsal/ventral axis spec."
##      "negative regulation of canonical Wnt signaling pathway involved in controlling ty"
##      "regulation of Rho-dependent protein serine/threonine kinase activity"
##      "negative regulation of synaptic plasticity"
##      "DNA-templated transcription, initiation"
##      "negative regulation of Arp2/3 complex-mediated actin nucleation"
##      "brain-derived neurotrophic factor receptor signaling pathway"
##      "regulation of translation at postsynapse, modulating synaptic transmission"
##      "regulation of dopaminergic neuron differentiation"
##      "muscle system process"
##      "guanine catabolic process"

```

```

##      "dCTP catabolic process"
##      "dopamine biosynthetic process from tyrosine"
##      "eye pigment granule organization"
##      "glycoside metabolic process"
##      "arginine deiminase pathway"
##      "iron ion transmembrane transport"
##      "N-glycan fucosylation"
##      "medium-chain fatty-acyl-CoA catabolic process"
##      "long-chain fatty-acyl-CoA catabolic process"
##      "terpene metabolic process"
##      "taurine biosynthetic process"
##      "receptor metabolic process"
##      "negative regulation of ion transport"
##      "negative regulation of CD4 biosynthetic process"
##      "dTTP catabolic process"
##      "GDP-L-fucose metabolic process"
##      "regulation of actin nucleation"
##      "Bergmann glial cell differentiation"
##      "retinal bipolar neuron differentiation"
##      "closure of optic fissure"
##      "cellular response to mercaptoethanol"
##      "regulation of recycling endosome localization within postsynapse"
##      "presynapse to nucleus signaling pathway"
##      "negative regulation of response to oxidative stress"
##      "positive regulation of potassium ion export across plasma membrane"
##      "negative regulation of collecting lymphatic vessel constriction"
##      "presynaptic active zone organization"
##      "regulation of Rho guanyl-nucleotide exchange factor activity"
##      "regulation of organelle assembly"
##      "chorionic trophoblast cell differentiation"
##      "potassium ion import"
##      "somite rostral/caudal axis specification"
##      "morphogenesis of an epithelial fold"
##      "embryonic heart tube anterior/posterior pattern specification"
##      "positive regulation of mitotic cell cycle spindle assembly checkpoint"
##      "protein unfolding"
##      "negative regulation of ERBB signaling pathway"
##      "phagolysosome assembly"
##      "sphinganine-1-phosphate metabolic process"
##      "galactosylceramide catabolic process"
##      "negative regulation of cell fate commitment"
##      "rhombomere 5 development"
##      "rhombomere 6 development"
##      "embryonic olfactory bulb interneuron precursor migration"
##      "pseudopodium organization"
##      "positive regulation of glutamate-cysteine ligase activity"
##      "hepatic stellate cell activation"
##      "negative regulation of viral-induced cytoplasmic pattern recognition receptor signaling"
##      "dicarboxylic acid catabolic process"
##      "lipid digestion"
##      "negative regulation of short-term neuronal synaptic plasticity"
##      "vesicle fusion with vesicle"
##      "secretory granule maturation"
##      "leukocyte aggregation"

```

```

## "epithelial cell fate commitment"
## "protein insertion into plasma membrane"
## "positive regulation of calcium:sodium antiporter activity"
## "Golgi apparatus mannose trimming"
## "negative regulation of retrograde trans-synaptic signaling by neuropeptide"
## "negative regulation of actin filament binding"
## "positive regulation of protein export from nucleus"
## "positive regulation of protein localization to nucleolus"
## "sensory organ development"
## "prenylated protein catabolic process"
## "regulation of steroid biosynthetic process"
## "apoptotic process involved in development"
## "regulation of cation channel activity"
## "ganglioside biosynthetic process"
## "NK T cell proliferation"
## "biosynthetic process of antibacterial peptides active against Gram-negative bacteria"
## "regulation of macrophage derived foam cell differentiation"
## "plasma membrane copper ion transport"
## "mercury ion transport"
## "bilirubin transport"
## "prostaglandin transport"
## "O-glycan processing, core 3"
## "peptidyl-lysine N6-acetylation"
## "positive regulation of DNA endoreduplication"
## "cuticle development"
## "epinephrine metabolic process"
## "positive regulation of odontogenesis of dentin-containing tooth"
## "canonical Wnt signaling pathway involved in positive regulation of endothelial cell proliferation"
## "canonical Wnt signaling pathway involved in positive regulation of cell-cell adhesion"
## "canonical Wnt signaling pathway involved in positive regulation of wound healing"
## "elastin biosynthetic process"
## "respiratory system development"
## "mammary gland fat development"
## "neutrophil mediated killing of fungus"
## "cellular response to radiation"
## "B cell adhesion"
## "cation transmembrane transport"
## "regulation of bundle of His cell action potential"
## "palmitic acid biosynthetic process"
## "benzylpenicillin metabolic process"
## "positive regulation of macrophage colony-stimulating factor signaling pathway"
## "positive regulation of response to wounding"
## "response to dehydroepiandrosterone"
## "response to 11-deoxycorticosterone"
## "regulation of cytochrome-c oxidase activity"
## "negative regulation of iron ion transmembrane transport"
## "mitotic DNA integrity checkpoint"
## "regulation of progesterone biosynthetic process"
## "ceramide transport"
## "protein ufmylation"
## "regulation of adaptive immune response"
## "negative regulation of proteolysis"
## "protein localization to nucleolus"
## "cardiac muscle cell contraction"

```

```

##      "positive regulation of oxygen metabolic process"
##      "sucrose metabolic process"
##      "regulation of ketone biosynthetic process"
##      "positive regulation of macrophage fusion"
##      "protein demalonylation"
##      "peptidyl-lysine demalonylation"
##      "protein desuccinylation"
##      "peptidyl-lysine desuccinylation"
##      "serotonin biosynthetic process"
##      "vacuolar sequestering"
##      "ITP metabolic process"
##      "UTP metabolic process"
##      "deoxyribonucleoside catabolic process"
##      "protein de-ADP-ribosylation"
##      "negative regulation of growth hormone receptor signaling pathway"
##      "protein deglutarylation"
##      "peptidyl-lysine deglutarylation"
##      "mitochondrial threonyl-tRNA aminoacylation"
##      "renal water absorption"
##      "SA node cell to atrial cardiac muscle cell communication by electrical coupling"
##      "cardiac muscle cell-cardiac muscle cell adhesion"
##      "AV node cell to bundle of His cell communication by electrical coupling"
##      "negative regulation of oocyte maturation"
##      "regulation of ephrin receptor signaling pathway"
##      "negative regulation of microglial cell migration"
##      "positive regulation of microglial cell mediated cytotoxicity"
##      "response to iron ion starvation"
##      "positive regulation of memory T cell activation"
##      "monocarboxylic acid transport"
##      "membrane protein intracellular domain proteolysis"
##      "cellular response to hydrogen peroxide"
##      "regulation of gluconeogenesis by regulation of transcription from RNA polymerase I"
##      "peptidyl-cysteine S-nitrosylation"
##      "regulation of viral process"
##      "regulation of protein serine/threonine kinase activity"
##      "regulation of protein targeting to vacuolar membrane"
##      "negative regulation of plasmacytoid dendritic cell cytokine production"
##      "chitin metabolic process"
##      "cell wall chitin metabolic process"
##      "catabolic process"
##      "positive regulation of cell development"
##      "rhombomere 3 development"
##      "rhombomere 4 development"
##      "corticospinal neuron axon guidance"
##      "peptide modification"
##      "inositol trisphosphate metabolic process"
##      "protein N-linked glycosylation via arginine"
##      "neural nucleus development"
##      "dermatan sulfate proteoglycan biosynthetic process, polysaccharide chain biosynthesis"
##      "negative regulation of lipoprotein lipid oxidation"
##      "seminal vesicle development"
##      "cell adhesion involved in heart morphogenesis"
##      "negative regulation of stress granule assembly"
##      "positive regulation of phospholipid biosynthetic process"

```

```

## "epithelial tube formation"
## "negative regulation of cellular response to hypoxia"
## "positive regulation of AMPA glutamate receptor clustering"
## "positive regulation of aldosterone secretion"
## "regulation of phosphatidylcholine biosynthetic process"
## "positive regulation of viral genome replication"
## "riboflavin metabolic process"
## "suppression by virus of host apoptotic process"
## "establishment of planar polarity of follicular epithelium"
## "mitochondrial fragmentation involved in apoptotic process"
## "regulation of chromosome separation"
## "T-helper 1 cell differentiation"
## "ammonia assimilation cycle"
## "polysaccharide catabolic process"
## "histone displacement"
## "activation of blood coagulation via clotting cascade"
## "axis elongation"
## "quaternary ammonium group transport"
## "peptidyl-pyrromethane cofactor linkage"
## "dendrite regeneration"
## "positive regulation of brain-derived neurotrophic factor receptor signaling pathway"
## "otolith morphogenesis"
## "macromolecule localization"
## "histone H3-R26 citrullination"
## "amide transport"
## "glycosphingolipid catabolic process"
## "peptide antigen stabilization"
## "positive regulation of transcription involved in meiotic cell cycle"
## "type B pancreatic cell maturation"
## "trans-synaptic signaling by trans-synaptic complex"
## "positive regulation of protein localization to endosome"
## "dense core granule exocytosis"
## "cellular response to aluminum ion"
## "negative regulation of lysosome organization"
## "glutamine biosynthetic process"
## "cellular response to gamma radiation"
## "positive regulation of prolactin secretion"
## "negative regulation of mitotic sister chromatid separation"
## "response to UV-B"
## "positive regulation of interleukin-6 biosynthetic process"
## "regulation of triglyceride metabolic process"
## "positive regulation of glycolytic process"
## "primitive hemopoiesis"
## "negative regulation of peptide secretion"
## "macrophage migration inhibitory factor signaling pathway"
## "S-adenosyl-L-methionine transport"
## "positive regulation of melanocyte differentiation"
## "glycolipid transport"
## "sensory perception of sour taste"
## "transepithelial transport"
## "positive regulation of protein glycosylation in Golgi"
## "negative regulation of serine-type endopeptidase activity"
## "S-adenosyl-L-methionine transmembrane transport"
## "positive regulation of CoA-transferase activity"

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##      "regulation of DNA biosynthetic process"
##      NA
##      "protein localization to vacuolar membrane"
##      "positive regulation of monooxygenase activity"
##      "neuron projection guidance"
##      "inter-male aggressive behavior"
##      "regulation of tolerance induction dependent upon immune response"
##      "positive regulation of chronic inflammatory response"
##      "proximal/distal axis specification"
##      "neuroblast differentiation"
##      "negative regulation of muscle hypertrophy"
##      "principal sensory nucleus of trigeminal nerve development"
##      "neurohypophysis development"
##      "negative regulation of interleukin-3 production"
##      "kynurenic acid biosynthetic process"
##      "L-fucose catabolic process"
##      "epinephrine biosynthetic process"
##      "macromolecule metabolic process"
##      "relaxation of smooth muscle"
##      "positive regulation of fatty acid biosynthetic process"
##      "detection of mechanical stimulus involved in sensory perception of touch"
##      "cadmium ion homeostasis"
##      "regulation of protein glycosylation"
##      "lung ciliated cell differentiation"
##      "glucagon secretion"
##      "cellular response to lead ion"
##      "cellular response to corticosteroid stimulus"
##      "negative regulation of granulocyte colony-stimulating factor production"
##      "positive regulation of lysosomal membrane permeability"
##      "histone H3-K4 monomethylation"
##      "dendrite arborization"
##      "negative regulation of retinoic acid biosynthetic process"
##      "regulation of cell cycle phase transition"
##      "regulation of receptor localization to synapse"
##      "L-ornithine transmembrane transport"
##      "positive regulation of metaphase/anaphase transition of meiosis I"
##      "regulation of calcium ion export across plasma membrane"
##      "regulation of testosterone biosynthetic process"
##      "regulation of macrophage migration inhibitory factor signaling pathway"
##      "negative regulation of epithelial cell proliferation involved in lung morphogenesis"
##      "spliceosome conformational change to release U4 (or U4atac) and U1 (or U11)"
##      "10-formyltetrahydrofolate biosynthetic process"
##      "regulation of mRNA stability"
##      "retinal cell programmed cell death"
##      "negative regulation of calcium ion transmembrane transporter activity"
##      "positive regulation of shelterin complex assembly"
##      "negative regulation of establishment of protein localization to telomere"
##      "negative regulation of establishment of RNA localization to telomere"
##      "negative regulation of establishment of protein-containing complex localization to telomere"
##      "ectodermal cell differentiation"
##      "response to fluid shear stress"
##      "regulation of type I interferon-mediated signaling pathway"
##      "production of miRNAs involved in gene silencing by miRNA"
##      "positive regulation of synaptic transmission"

```

```

##      "leukocyte homeostasis"
##      "protein amidation"
##      "protein deamination"
##      "neural plate anterior/posterior regionalization"
##      "interleukin-17 production"
##      "fucosylation"
##      "negative regulation of bone remodeling"
##      "detection of chemical stimulus involved in sensory perception of pain"
##      "positive regulation of ovulation"
##      "mesenchymal-epithelial cell signaling involved in prostate gland development"
##      "ubiquitin-dependent endocytosis"
##      "protein catabolic process, modulating synaptic transmission"
##      "negative regulation of cell adhesion involved in sprouting angiogenesis"
##      "negative regulation of protein localization to cilium"
##      "negative regulation of protein localization to ciliary membrane"
##      "regulation of response to drug"
##      "carnosine metabolic process"
##      "DNA dealkylation involved in DNA repair"
##      "carnitine metabolic process"
##      "response to tumor necrosis factor"
##      "negative regulation of macroautophagy"
##      "response to interleukin-2"
##      "response to interleukin-9"
##      "positive regulation of GTPase activity"
##      "central tolerance induction"
##      "positive regulation of central B cell tolerance induction"
##      "membrane lipid metabolic process"
##      "cellular metal ion homeostasis"
##      "spinal cord oligodendrocyte cell fate specification"
##      "negative regulation of catecholamine secretion"
##      "copper ion transmembrane transport"
##      "FasL biosynthetic process"
##      "post-embryonic retina morphogenesis in camera-type eye"
##      "negative regulation of SMAD protein signal transduction"
##      "protein initiator methionine removal"
##      "glomerular parietal epithelial cell development"
##      "positive regulation of lung ciliated cell differentiation"
##      "positive regulation of protein geranylgeranylation"
##      "regulation of synaptic vesicle clustering"
##      "response to xenobiotic stimulus"
##      "quinolinate biosynthetic process"
##      "anthranilate metabolic process"
##      "forebrain regionalization"
##      "SMAD protein signal transduction"
##      "regulation of cardiac muscle cell action potential"
##      "nucleotide-excision repair, DNA damage removal"
##      "positive regulation of antibacterial peptide production"
##      "DNA 3' dephosphorylation involved in DNA repair"
##      "polynucleotide 3' dephosphorylation"
##      "positive regulation of defense response to bacterium"
##      "negative regulation of protein export from nucleus"
##      "hepatocyte cell migration"
##      "thiamine metabolic process"
##      "vacuole organization"

```

```

## "cellular response to phosphate starvation"
## "phthalate metabolic process"
## "rRNA 3'-end processing"
## "catecholamine catabolic process"
## "otic placode formation"
## "molybdopterin cofactor metabolic process"
## "norepinephrine secretion"
## "positive regulation of homocysteine metabolic process"
## "Spemann organizer formation"
## "branching involved in pancreas morphogenesis"
## "positive regulation of macrophage inflammatory protein 1 alpha production"
## "acinar cell differentiation"
## "blood vessel endothelial cell delamination"
## "positive regulation of presynaptic membrane organization"
## "positive regulation of cell cycle checkpoint"
## "protein localization to Golgi membrane"
## "negative regulation of brown fat cell differentiation"
## "signal transduction involved in regulation of aerobic respiration"
## "positive regulation of forebrain neuron differentiation"
## "synapse pruning"
## "negative regulation of striated muscle contraction"
## "negative regulation of calcium ion transmembrane transport"
## "negative regulation of calcium:sodium antiporter activity"
## "lipid hydroxylation"
## "copper ion export"
## "negative regulation of cell proliferation involved in contact inhibition"
## "positive regulation of type IV hypersensitivity"
## "positive regulation of abscisic acid-activated signaling pathway"
## "cell-cell recognition"
## "muscle cell apoptotic process"
## "regulation of skeletal muscle contraction by calcium ion signaling"
## "regulation of excitatory postsynaptic membrane potential involved in skeletal mus"
## "UDP-glucose transmembrane transport"
## "plasma membrane long-chain fatty acid transport"
## "modulation by virus of host transcription"
## "septin cytoskeleton organization"
## "response to luteinizing hormone"
## "neurotrophin signaling pathway"
## "positive regulation of axon extension involved in regeneration"
## "epicardium-derived cardiac fibroblast cell development"
## "UDP-galactose transmembrane transport"
## "vesicle-mediated intercellular transport"
## "clathrin-dependent synaptic vesicle endocytosis"
## "positive regulation of antral ovarian follicle growth"
## "regulation of thyroid-stimulating hormone secretion"
## "atrial cardiac muscle cell development"
## "nuclear-transcribed mRNA catabolic process"
## "DNA damage induced protein phosphorylation"
## "positive regulation of gamma-delta T cell differentiation"
## "digestion"
## "cellular lipid catabolic process"
## "regulation of mitochondrial membrane permeability"
## "cholesterol biosynthetic process via desmosterol"
## "cholesterol biosynthetic process via lathosterol"

```



```

## "endonucleolytic cleavage to generate mature 5'-end of SSU-rRNA from (SSU-rRNA, 5.8S)
## "diacylglycerol metabolic process"
## "negative regulation of branching involved in lung morphogenesis"
## "cadmium ion transmembrane transport"
## "positive regulation of leukocyte adhesion to arterial endothelial cell"
## "embryonic heart tube formation"
## "acetate metabolic process"
## "termination of mitochondrial transcription"
## "uroporphyrinogen III biosynthetic process"
## "negative regulation of cell development"
## "peptidyl-arginine ADP-ribosylation"
## "defecation"
## "wybutosine biosynthetic process"
## "negative regulation of syncytium formation by plasma membrane fusion"
## "egg coat formation"
## "morphogenesis of a branching epithelium"
## "ureter morphogenesis"
## "trans-synaptic signaling, modulating synaptic transmission"
## "regulation of actin filament organization"
## "regulation of positive thymic T cell selection"
## "positive regulation of skeletal muscle fiber differentiation"
## "positive regulation of 3'-UTR-mediated mRNA stabilization"
## "positive regulation of acrosomal vesicle exocytosis"
## "cilium-dependent cell motility"
## "regulation of tolerance induction"
## "apoptotic process"
## "CAAX-box protein processing"
## "postganglionic parasympathetic fiber development"
## "positive regulation of immune response"
## "folic acid-containing compound metabolic process"
## "interleukin-1-mediated signaling pathway"
## "early endosome to recycling endosome transport"
## "L-leucine import across plasma membrane"
## "regulation of asymmetric cell division"
## "intracellular sterol transport"
## "regulation of natural killer cell activation"
## "DNA damage response, signal transduction resulting in transcription"
## "DNA demethylation of male pronucleus"
## "positive regulation of Wnt signaling pathway, calcium modulating pathway"
## "short-chain fatty acid metabolic process"
## "3'-phosphoadenosine 5'-phosphosulfate transport"
## "coagulation"
## "synapse assembly involved in innervation"
## "regulation of lipoprotein lipid oxidation"
## "regulation of branching involved in salivary gland morphogenesis by extracellular matrix"
## "regulation of branching involved in salivary gland morphogenesis"
## "cell migration involved in coronary vasculogenesis"
## "T cell apoptotic process"
## "platelet alpha granule organization"
## "cellular response to L-ascorbic acid"
## "metanephric mesenchymal cell differentiation"
## "positive regulation of heart induction by negative regulation of canonical Wnt signaling pathway"
## "negative regulation of canonical Wnt signaling pathway involved in cardiac muscle morphogenesis"
## "regulation of nucleic acid-templated transcription"

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## "positive regulation of fat cell apoptotic process"
## "negative regulation of Wnt-Frizzled-LRP5/6 complex assembly"
## "positive regulation of midbrain dopaminergic neuron differentiation"
## "negative regulation of glutamine transport"
## "negative regulation of smoothened signaling pathway involved in dorsal/ventral ne
## "cellular response to amyloid-beta"
## "positive regulation of response to oxidative stress"
## "guanine salvage"
## "GMP catabolic process"
## "establishment of mitochondrion localization"
## "regulation of protein kinase activity"
## "regulation of exocyst assembly"
## "leukotriene production involved in inflammatory response"
## "pancreatic D cell differentiation"
## "regulation of proton transport"
## "cell migration in hindbrain"
## "actin filament-based process"
## "negative regulation of odontogenesis of dentin-containing tooth"
## "negative regulation of skeletal muscle tissue growth"
## "generation of neurons"
## "regulation of exocyst localization"
## "detection of hypoxia"
## "pancreatic epsilon cell differentiation"
## "regulation of membrane lipid distribution"
## "neurotransmitter reuptake"
## "positive regulation of smoothened signaling pathway involved in dorsal/ventral ne
## "positive regulation of RNA polymerase II regulatory region sequence-specific DNA l
## "positive regulation of transcription from RNA polymerase II promoter involved in r
## "positive regulation of semaphorin-plexin signaling pathway involved in outflow tr
## "negative regulation of interleukin-12 secretion"
## "response to hypoxia"
## "positive regulation of macrophage chemotaxis"
## "defense response to nematode"
## "serine family amino acid biosynthetic process"
## "insulin secretion involved in cellular response to glucose stimulus"
## "polynucleotide 5' dephosphorylation"
## "intrinsic apoptotic signaling pathway in response to oxidative stress"
## "histidine biosynthetic process"
## "threonine metabolic process"
## "gamma-aminobutyric acid metabolic process"
## "viral translational termination-reinitiation"
## "negative regulation of type IV hypersensitivity"
## "columnar/cuboidal epithelial cell development"
## "immune response-inhibiting signal transduction"
## "regulation of systemic arterial blood pressure by baroreceptor feedback"
## "regulation of mitotic cell cycle, embryonic"
## "glossopharyngeal nerve development"
## "vagus nerve development"
## "hypoglossal nerve morphogenesis"
## "regulation of cell projection organization"
## "GTP metabolic process"
## "positive regulation of neuron projection regeneration"
## "phytosphingosine biosynthetic process"
## "cell gliding"

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## "T cell meandering migration"
## "mitotic nuclear division"
## "response to peptide"
## "regulation of tau-protein kinase activity"
## "prostaglandin catabolic process"
## "negative regulation of cardiac muscle cell myoblast differentiation"
## "regulation of non-canonical Wnt signaling pathway"
## "tRNA methylation"
## "testosterone biosynthetic process"
## "craniofacial suture morphogenesis"
## "negative regulation of autophagosome maturation"
## "methionine biosynthetic process"
## "negative regulation of mitochondrial depolarization"
## "cellular process"
## "glycosphingolipid biosynthetic process"
## "galactitol metabolic process"
## "regulation of interleukin-18 biosynthetic process"
## "negative regulation of Toll signaling pathway"
## "antigen processing and presentation of peptide antigen"
## "determination of dorsal identity"
## "lateral element assembly"
## "Spemann organizer formation at the anterior end of the primitive streak"
## "optic chiasma development"
## "glycolytic process from galactose"
## "endothelial cell-matrix adhesion"
## "ATP hydrolysis coupled ion transmembrane transport"
## "regulation of protein K63-linked ubiquitination"
## "positive regulation of platelet aggregation"
## "regulation of protein autoubiquitination"
## "sperm flagellum movement involved in flagellated sperm motility"
## "canonical Wnt signaling pathway involved in stem cell proliferation"
## "negative regulation of synapse maturation"
## "positive regulation of optic nerve formation"
## "regulation of motor neuron apoptotic process"
## "autophagosome membrane docking"
## "negative regulation of myelination"
## "immune system process"
## "blue light signaling pathway"
## "response to organophosphorus"
## "cobalamin metabolic process"
## "positive regulation of neurotrophin TRK receptor signaling pathway"
## "transcription by RNA polymerase I"
## "Toll signaling pathway"
## "regulation of hormone levels"
## "protein demethylation"
## "negative regulation of fibroblast migration"
## "protein import"
## "B cell activation involved in immune response"
## "L-cystine transport"
## "protein polyglycylation"
## "protein citrullination"
## "interferon-gamma biosynthetic process"
## "regulation of MHC class I biosynthetic process"
## "deoxyribose phosphate catabolic process"

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## "pigment granule maturation"
## "negative regulation of cell activation"
## "response to interleukin-11"
## "cellular response to pheromone"
## "negative regulation of collagen fibril organization"
## "regulation of guanyl-nucleotide exchange factor activity"
## "negative regulation of macrophage migration"
## "negative regulation of phosphatidylcholine biosynthetic process"
## "positive regulation of lipopolysaccharide-mediated signaling pathway"
## "positive regulation of DNA biosynthetic process"
## "adenosine metabolic process"
## "lymphocyte activation"
## "negative regulation of UDP-glucose catabolic process"
## "positive regulation of adenylate cyclase-activating adrenergic receptor signaling"
## "negative regulation of glycogen synthase activity, transferring glucose-1-phosphate"
## "V(D)J recombination"
## "glycoprotein transport"
## "T-helper cell lineage commitment"
## "negative regulation of tolerance induction"
## "negative regulation of T cell mediated immunity"
## "response to carbon dioxide"
## "hexose biosynthetic process"
## "female sex determination"
## "immature T cell proliferation in thymus"
## "geranylgeranyl diphosphate biosynthetic process"
## "response to genistein"
## "tube morphogenesis"
## "helper T cell extravasation"
## "non-canonical Wnt signaling pathway via MAPK cascade"
## "positive regulation of lymphotoxin A biosynthetic process"
## "negative regulation of interleukin-4 biosynthetic process"
## "negative regulation of follicle-stimulating hormone secretion"
## "vesicle targeting, trans-Golgi to endosome"
## "eye morphogenesis"
## "phytoalexin metabolic process"
## "negative regulation of mast cell differentiation"
## "negative regulation of testicular blood vessel morphogenesis"
## "renal vesicle formation"
## "metanephric nephron morphogenesis"
## "granulocyte migration"
## "response to Thyroid stimulating hormone"
## "folate import into mitochondrion"
## "response to astaxanthin"
## "response to thyrotropin-releasing hormone"
## "dorsal root ganglion development"
## "negative regulation of male gonad development"
## "positive regulation of cortisol biosynthetic process"
## "actomyosin structure organization"
## "cell cycle G1/S phase transition"
## "regulation of immune system process"
## "nitric oxide metabolic process"
## "histone acetylation"
## "regulation of cellular component size"
## "negative regulation of synaptic vesicle clustering"

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##      "attachment of GPI anchor to protein"
##      "signal transduction by trans-phosphorylation"
##      "positive regulation of dopamine metabolic process"
##      "regulation of blood pressure"
##      "cardiac muscle cell proliferation"
##      "inactivation of MAPK activity"
##      "chitin catabolic process"
##      "detection of peptidoglycan"
##      "basement membrane disassembly"
##      "regulation of timing of catagen"
##      "actin-mediated cell contraction"
##      "detection of lipoteichoic acid"
##      "regulation of apoptotic process involved in outflow tract morphogenesis"
##      "positive regulation of C-C chemokine receptor CCR7 signaling pathway"
##      "substantia propria of cornea development"
##      "membrane protein proteolysis involved in retrograde protein transport, ER to cytosol"
##      "response to 2,3,7,8-tetrachlorodibenzodioxine"
##      "protein localization to site of double-strand break"
##      "positive regulation of CD40 signaling pathway"
##      "negative regulation of interleukin-10 secretion"
##      "negative regulation of telomere maintenance"
##      "negative regulation of cardiac muscle cell proliferation"
##      "apoptotic process involved in heart morphogenesis"
##      "histone H4-K20 demethylation"
##      "negative regulation of growth rate"
##      "eye pigment biosynthetic process"
##      "transdifferentiation"
##      "phylloquinone catabolic process"
##      "positive regulation of fractalkine biosynthetic process"
##      "membrane repolarization during action potential"
##      "atrioventricular bundle cell differentiation"
##      "gonadal mesoderm development"
##      "glycolate metabolic process"
##      "cardioblast differentiation"
##      "vitamin E biosynthetic process"
##      "muscle hypertrophy"
##      "adaptation of rhodopsin mediated signaling"
##      "establishment or maintenance of polarity of embryonic epithelium"
##      "NAD catabolic process"
##      "caudate nucleus development"
##      "putamen development"
##      "fast-twitch skeletal muscle fiber contraction"
##      "regulation of cell projection size"
##      "regulation of integrin activation"
##      "multivesicular body organization"
##      "cytotoxic T cell degranulation"
##      "cellular metabolic process"
##      "follicle-stimulating hormone secretion"
##      "negative regulation of oocyte development"
##      "lobar bronchus development"
##      "positive regulation of fructose 1,6-bisphosphate 1-phosphatase activity"
##      "positive regulation of fructose 1,6-bisphosphate metabolic process"
##      "renal inner medulla development"
##      "renal outer medulla development"

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## "outer medullary collecting duct development"
## "complement-dependent cytotoxicity"
## "negative regulation of synaptic vesicle endocytosis"
## "positive regulation of constitutive secretory pathway"
## "positive regulation of trophectodermal cell proliferation"
## "positive regulation of protein import"
## "negative regulation of membrane invagination"
## "regulation of phagosome maturation"
## "positive regulation of protein localization to phagocytic vesicle"
## "negative regulation of clathrin-coated pit assembly"
## "dense core granule maturation"
## "positive regulation of tumor necrosis factor (ligand) superfamily member 11 production"
## "anterograde axonal transport"
## "phospholipid translocation"
## "ubiquinone metabolic process"
## "pyridoxine biosynthetic process"
## "regulation of oligodendrocyte differentiation"
## "attachment of spindle microtubules to kinetochore involved in homologous chromosome segregation"
## "nitrate catabolic process"
## "nitric oxide catabolic process"
## "positive regulation of steroid hormone biosynthetic process"
## "cellular organofluorine metabolic process"
## "negative regulation of leukocyte cell-cell adhesion"
## "regulation of actin filament depolymerization"
## "regulation of T cell tolerance induction"
## "immune response-activating signal transduction"
## "neural crest cell fate commitment"
## "T-helper 1 cell cytokine production"
## "renal sodium excretion"
## "renal potassium excretion"
## "transforming growth factor-beta secretion"
## "tetrahydrofolylpolyglutamate metabolic process"
## "cytoplasmic actin-based contraction involved in cell motility"
## "positive regulation of transcription from RNA polymerase II promoter in response to stress"
## "regulation of establishment of protein localization to chromosome"
## "nuclear retention of pre-mRNA at the site of transcription"
## "protein localization to non-motile cilium"
## "regulation of protein depolymerization"
## "positive regulation of male germ cell proliferation"
## "negative regulation of histone H3-K79 methylation"
## "mesoderm formation"
## "positive regulation of single stranded viral RNA replication via double stranded intermediate"
## "negative regulation of DNA duplex unwinding"
## "endodermal cell fate commitment"
## "photoreceptor cell development"
## "aminophospholipid transport"
## "NADP catabolic process"
## "cobalt ion transport"
## "regulation of mesenchymal cell proliferation"
## "late endosome to vacuole transport via multivesicular body sorting pathway"
## "positive regulation of translation initiation in response to endoplasmic reticulum stress"
## "regulation of endodermal cell fate specification"
## "asymmetric protein localization involved in cell fate determination"
## "chondroitin sulfate proteoglycan biosynthetic process, polysaccharide chain biosynthesis"

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## "hepoxilin biosynthetic process"
## "synaptic transmission involved in micturition"
## "positive regulation of serine-type endopeptidase activity"
## "positive regulation of excitatory synapse assembly"
## "bone regeneration"
## "positive regulation of growth"
## "renal glucose absorption"
## "positive regulation of interleukin-1 alpha secretion"
## "negative regulation of activated T cell proliferation"
## "negative regulation of defense response to virus"
## "learning or memory"
## "thymidine metabolic process"
## "regulation of type 2 immune response"
## "negative regulation of natural killer cell mediated cytotoxicity directed against"
## "negative regulation of chronic inflammatory response to antigenic stimulus"
## "xylulose catabolic process"
## "interneuron migration from the subpallium to the cortex"
## "positive regulation of leukotriene production involved in inflammatory response"
## "retrograde transport, plasma membrane to Golgi"
## "histone citrullination"
## "positive regulation of cytokine biosynthetic process"
## "primary follicle stage"
## "pigment granule transport"
## "monoacylglycerol catabolic process"
## "negative regulation of vascular wound healing"
## "histone H3-K36 trimethylation"
## "positive regulation of odontoblast differentiation"
## "negative regulation of cell proliferation involved in kidney development"
## "regulation of response to wounding"
## "negative regulation of connective tissue replacement involved in inflammatory respo"
## "negative regulation of advanced glycation end-product receptor activity"
## "regulation of protein localization to chromatin"
## "negative regulation of testosterone biosynthetic process"
## "regulation of kainate selective glutamate receptor activity"
## "regulation of CD4-positive, alpha-beta T cell activation"
## "positive regulation of renal water transport"
## "multicellular organismal response to stress"
## "response to morphine"
## "cell fate specification"
## "histone H4-K20 trimethylation"
## "negative regulation of mitochondrial DNA replication"
## "mamillary body development"
## "mammillothalamic axonal tract development"
## "mammary gland lobule development"
## "inferior colliculus development"
## "cell migration in diencephalon"
## "mesodermal-endodermal cell signaling"
## "chromosome breakage"
## "histone H2A-S139 phosphorylation"
## "negative regulation of T-helper 1 cell differentiation"
## "positive regulation of protein neddylation"
## "positive regulation of cellular response to X-ray"
## "endothelial to hematopoietic transition"
## "positive regulation of vesicle docking"

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##      "manchette assembly"
##      "sphinganine-1-phosphate biosynthetic process"
##      "gamma-aminobutyric acid transport"
##      "siderophore transport"
##      "brassinosteroid biosynthetic process"
##      "protein-pyridoxal-5-phosphate linkage"
##      "glycolipid translocation"
##      "U6 snRNA 3'-end processing"
##      "prolactin signaling pathway"
##      "acrosomal vesicle exocytosis"
##      "sinoatrial node cell development"
##      "site-specific DNA replication termination at RTS1 barrier"
##      "multinuclear osteoclast differentiation"
##      "synaptic vesicle cycle"
##      "negative regulation of nodal signaling pathway"
##      "mitotic DNA replication termination"
##      "positive regulation of ATP metabolic process"
##      "positive regulation of phospholipid transport"
##      "digestive tract morphogenesis"
##      "positive regulation of chronic inflammatory response to antigenic stimulus"
##      "negative regulation of muscle contraction"
##      "mannose trimming involved in glycoprotein ERAD pathway"
##      "eyelid development in camera-type eye"
##      "body morphogenesis"
##      "regulation of interleukin-6 production"
##      "positive regulation of anterograde axonal transport of mitochondrion"
##      "negative regulation of store-operated calcium channel activity"
##      "regulation of myeloid leukocyte differentiation"
##      "protein biotinylation"
##      "virus maturation"
##      "negative regulation of heat generation"
##      "centromere complex assembly"
##      "response to cortisone"
##      "positive regulation of phospholipid catabolic process"
##      "histone H3-K27 methylation"
##      "histone biotinylation"
##      "negative regulation of adenylate cyclase-activating adrenergic receptor signaling"
##      "copper ion import across plasma membrane"
##      "positive regulation of neuromuscular synaptic transmission"
##      "regulation of postsynaptic membrane organization"
##      "establishment of protein localization to postsynaptic membrane"
##      "positive regulation of voltage-gated potassium channel activity"
##      "negative regulation of epithelial to mesenchymal transition involved in endocardial
##      "macrophage migration"
##      "positive regulation of myotome development"
##      "negative regulation of lamellipodium morphogenesis"
##      "spermidine acetylation"
##      "preantral ovarian follicle growth"
##      "negative regulation of membrane potential"
##      "regulation of pronephros size"
##      "thyroid hormone metabolic process"
##      "synaptic vesicle membrane organization"
##      "mitochondrial RNA processing"
##      "S-adenosylmethioninamine biosynthetic process"

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##      "establishment or maintenance of apical/basal cell polarity"
##      "RNA (guanine-N7)-methylation"
##      "cytotoxic T cell differentiation"
##      "mitochondrial tRNA wobble uridine modification"
##      "positive regulation of voltage-gated sodium channel activity"
##      "positive regulation of dipeptide transmembrane transport"
##      "atrial cardiac muscle cell action potential"
##      "RNA 5'-cap (guanine-N7)-methylation"
##      "putrescine catabolic process"
##      "regulation of development, heterochronic"
##      "fatty acid alpha-oxidation"
##      "cellular response to lipid"
##      "intracellular transport of virus"
##      "positive regulation of intrinsic apoptotic signaling pathway in response to osmot
##      "male courtship behavior"
##      "nucleotide-sugar metabolic process"
##      "tonic smooth muscle contraction"
##      "negative regulation of transmembrane transport"
##      "base-excision repair, AP site formation via deaminated base removal"
##      "negative regulation of detection of mechanical stimulus involved in sensory perce
##      "mitochondrial transmembrane transport"
##      "protein localization to cell cortex"
##      "regulation of inclusion body assembly"
##      "tRNA pseudouridine synthesis"
##      "positive regulation of mononuclear cell proliferation"
##      "ethylene metabolic process"
##      "dibenzo-p-dioxin catabolic process"
##      "posttranslational protein targeting to membrane, translocation"
##      "PERK-mediated unfolded protein response"
##      "positive regulation of glutamate secretion, neurotransmission"
##      "positive regulation of heart rate"
##      "response to fatty acid"
##      "cell-cell adhesion via plasma-membrane adhesion molecules"
##      "skeletal muscle atrophy"
##      "meiotic telomere clustering"
##      "cell morphogenesis involved in neuron differentiation"
##      "MHC class II protein complex assembly"
##      "pyrimidine deoxyribonucleotide salvage"
##      "nucleotide-binding domain, leucine rich repeat containing receptor signaling path
##      "slit diaphragm assembly"
##      "regulation of natural killer cell mediated cytotoxicity"
##      "CTP salvage"
##      "mitochondrial magnesium ion transmembrane transport"
##      "regulation of axon extension involved in axon guidance"
##      "negative regulation of interleukin-1 secretion"
##      "positive regulation of mesenchymal to epithelial transition involved in metanephro
##      "regulation of skeletal muscle fiber differentiation"
##      "neural crest cell migration involved in sympathetic nervous system development"
##      "regulation of growth hormone activity"
##      "regulation of oxygen metabolic process"
##      "negative regulation of T cell migration"
##      "hindbrain morphogenesis"
##      "negative regulation of DNA ligase activity"
##      "habenula development"

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##      "glycoprotein biosynthetic process"
##      "ear development"
##      "positive regulation of axon extension"
##      "positive regulation of vitamin D biosynthetic process"
##      "negative regulation of transcription initiation from RNA polymerase II promoter"
##      "establishment or maintenance of cell polarity regulating cell shape"
##      "regulation of telomere capping"
##      "cellular response to L-glutamine"
##      "animal organ regeneration"
##      "negative regulation of neuron death"
##      "positive regulation of antigen processing and presentation of peptide antigen via
##      "negative regulation of lipopolysaccharide-mediated signaling pathway"
##      "gland morphogenesis"
##      "tRNA metabolic process"
##      "asparagine biosynthetic process"
##      "glycolipid metabolic process"
##      "vestibulocochlear nerve formation"
##      "response to vitamin K"
##      "protein glycosylation in Golgi"
##      "calcitriol biosynthetic process from calciol"
##      "'de novo' GDP-L-fucose biosynthetic process"
##      "nucleolar large rRNA transcription by RNA polymerase I"
##      "positive regulation of cellular component biogenesis"
##      "dUTP catabolic process"
##      "cytoskeletal matrix organization at active zone"
##      "negative regulation of cytokine activity"
##      "endocardial cushion cell development"
##      "L-asparagine biosynthetic process"
##      "proteasome core complex assembly"
##      "neurexin clustering involved in presynaptic membrane assembly"
##      "postsynaptic specialization assembly"
##      "positive regulation of presynaptic active zone assembly"
##      "AMP catabolic process"
##      "positive regulation of germinal center formation"
##      "negative regulation of heart rate"
##      "L-alanine transport"
##      "slow-twitch skeletal muscle fiber contraction"
##      "positive regulation of bicellular tight junction assembly"
##      "positive regulation of natural killer cell mediated cytotoxicity directed against
##      "regulation of immunoglobulin secretion"
##      "regulation of nitrogen compound metabolic process"
##      "negative regulation of respiratory burst"
##      "regulation of antimicrobial humoral response"
##      "gamma-aminobutyric acid catabolic process"
##      "parallel actin filament bundle assembly"
##      "vitamin transmembrane transport"
##      "developmental growth involved in morphogenesis"
##      "protein localization to mitotic spindle"
##      "luteinization"
##      "response to carbohydrate"
##      "lagging strand elongation"
##      "regulation of cellular component organization"
##      "mammary gland involution"
##      "endomembrane system organization"

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```

## "positive regulation of fibroblast proliferation"
## "response to lipopolysaccharide"
## "trigeminal nerve development"
## "double-strand break repair via single-strand annealing"
## "bile acid conjugation"
## "immunoglobulin production in mucosal tissue"
## "regulation of chromatin assembly"
## "chemorepulsion of branchiomotor axon"
## "negative regulation of interleukin-18 production"
## "FAD transmembrane transport"
## "regulation of negative chemotaxis"
## "positive regulation of oocyte development"
## "skeletal muscle organ development"
## "positive regulation of DNA-templated transcription, termination"
## "cellular hypotonic salinity response"
## "negative regulation of peptidyl-lysine crotonylation"
## "positive regulation of microtubule motor activity"
## "positive regulation of termination of RNA polymerase II transcription, poly(A)-co
## "membrane lipid catabolic process"
## "semi-lunar valve development"
## "synapsis"
## "positive regulation of cell differentiation"
## "dendritic transport of mitochondrion"
## "Purkinje myocyte differentiation"
## "septum secundum development"
## "internal protein amino acid acetylation"
## "positive regulation of very-low-density lipoprotein particle remodeling"
## "dolichol biosynthetic process"
## "corticospinal neuron axon guidance through spinal cord"
## "regulation of histone methylation"
## "negative regulation of mast cell apoptotic process"
## "response to vitamin B2"
## "induction of negative chemotaxis"
## "ventral spinal cord interneuron fate commitment"
## "mammary placode formation"
## "atrioventricular node cell fate commitment"
## "heterochromatin maintenance"
## "cellular response to non-ionic osmotic stress"
## "renal filtration"
## "positive regulation of protein tyrosine phosphatase activity"
## "viral genome replication"
## "branch elongation involved in ureteric bud branching"
## "mesonephric epithelium development"
## "copper ion import"
## "signal transduction involved in regulation of gene expression"
## "regulation of potassium ion import"
## "regulation of voltage-gated potassium channel activity involved in ventricular ca
## "regulation of potassium ion export across plasma membrane"
## "receptor biosynthetic process"
## "sphinganine biosynthetic process"
## "insecticide metabolic process"
## "zinc ion transport"
## "negative regulation of small GTPase mediated signal transduction"
## "negative regulation of high-density lipoprotein particle clearance"

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##      "RNA interference"
##      "forebrain neuron fate commitment"
##      "developmental induction"
##      "telomere formation via telomerase"
##      "negative regulation of transforming growth factor beta2 production"
##      "protein glycosylation in endoplasmic reticulum"
##      "RNA folding"
##      "ameloblast differentiation"
##      "quinolinate metabolic process"
##      "establishment of anatomical structure orientation"
##      "vesicle localization"
##      "protein-lipid complex assembly"
##      "positive regulation of enamel mineralization"
##      "positive regulation of bile acid biosynthetic process"
##      "negative regulation of phospholipid biosynthetic process"
##      "cellular response to sodium dodecyl sulfate"
##      "negative regulation of neutrophil chemotaxis"
##      "regulation of histone H4 acetylation"
##      "telomerase RNA localization to Cajal body"
##      "basal dendrite morphogenesis"
##      "positive regulation of cell cycle phase transition"
##      "exon-exon junction complex disassembly"
##      "negative regulation of microvillus assembly"
##      "negative regulation of vascular smooth muscle contraction"
##      "protein localization to Cajal body"
##      "negative regulation of platelet-derived growth factor receptor-alpha signaling pa
##      "regulation of histone H3-K36 trimethylation"
##      "response to ozone"
##      "negative regulation of viral process"
##      "dephosphorylation"
##      "positive regulation of hematopoietic stem cell proliferation"
##      "positive regulation of miRNA mediated inhibition of translation"
##      "chondrocyte differentiation involved in endochondral bone morphogenesis"
##      "positive regulation of interferon-beta biosynthetic process"
##      "tRNA 3'-end processing"
##      "positive regulation of cytokine production involved in inflammatory response"
##      "regulation of interferon-gamma-mediated signaling pathway"
##      "fasciculation of sensory neuron axon"
##      "enzyme-directed rRNA pseudouridine synthesis"
##      "cellular sphingolipid homeostasis"
##      "negative regulation of ceramide biosynthetic process"
##      "negative regulation of antigen processing and presentation of peptide antigen via
##      "atrioventricular valve development"
##      "xylulose metabolic process"
##      "peroxisome membrane biogenesis"
##      "regulation of calcium ion-dependent exocytosis"
##      "subthalamic nucleus development"
##      "negative regulation of signaling"
##      "gamma-delta T cell differentiation"
##      "D-xylose metabolic process"
##      "positive regulation of rhodopsin gene expression"
##      "prolactin secreting cell differentiation"
##      "bronchiole development"
##      "superior vena cava morphogenesis"

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```

## "protein secretion by platelet"
## "determination of intestine left/right asymmetry"
## "determination of stomach left/right asymmetry"
## "epithelial cell apoptotic process involved in palatal shelf morphogenesis"
## "regulation of planar cell polarity pathway involved in neural tube closure"
## "negative regulation of T-helper 17 cell lineage commitment"
## "negative regulation of binding of sperm to zona pellucida"
## "interleukin-2 production"
## "positive regulation of cation channel activity"
## "negative regulation of chromatin silencing at rDNA"
## "immune response-activating cell surface receptor signaling pathway"
## "thymus development"
## "dolichol-linked oligosaccharide biosynthetic process"
## "depyrimidination"
## "endothelial cell chemotaxis"
## "zymogen granule exocytosis"
## "heterochromatin assembly"
## "establishment of natural killer cell polarity"
## "basophil degranulation"
## "CMP-N-acetylneuraminate biosynthetic process"
## "DNA catabolic process"
## "vagus nerve morphogenesis"
## "regulation of transcription from RNA polymerase II promoter involved in forebrain"
## "cerebral cortex GABAergic interneuron fate commitment"
## "negative regulation by host of viral transcription"
## "regulation of respiratory system process"
## "UMP salvage"
## "phosphatidic acid metabolic process"
## "intracellular pH reduction"
## "ciliary body morphogenesis"
## "positive regulation of platelet-derived growth factor production"
## "endocardial cushion to mesenchymal transition"
## "leukotriene D4 biosynthetic process"
## "positive regulation of amacrine cell differentiation"
## "protein transport from ciliary membrane to plasma membrane"
## "protein localization to microvillus"
## "male genitalia development"
## "antigen processing and presentation of exogenous antigen"
## "regulation of epithelium regeneration"
## "viral life cycle"
## "neurotransmitter receptor metabolic process"
## "response to leucine"
## "establishment of integrated proviral latency"
## "intracellular receptor signaling pathway"
## "regulation of glycogen catabolic process"
## "C-terminal protein methylation"
## "response to nematode"
## "positive regulation of synaptic vesicle priming"
## "nucleobase transport"
## "L-ascorbic acid transmembrane transport"
## "chromatin silencing by small RNA"
## "positive regulation of aldosterone biosynthetic process"
## "tRNA methylthiolation"
## "dendritic cell homeostasis"

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## "transepithelial L-ascorbic acid transport"
## "cellular response to raffinose"
## "regulation of intracellular signal transduction"
## "regulation of astrocyte chemotaxis"
## "positive regulation of interleukin-1-mediated signaling pathway"
## "protein deneddylation"
## "cellular response to chromate"
## "susceptibility to natural killer cell mediated cytotoxicity"
## "negative regulation of triglyceride catabolic process"
## "regulation of translational initiation by eIF2 alpha dephosphorylation"
## "cellular response to high density lipoprotein particle stimulus"
## "type I interferon production"
## "regulation of neuronal signal transduction"
## "positive regulation of neurofibrillary tangle assembly"
## "negative regulation of response to endoplasmic reticulum stress"
## "negative regulation of cellular response to thapsigargin"
## "negative regulation of cellular response to tunicamycin"
## "positive regulation of isotype switching to IgE isotypes"
## "membrane raft localization"
## "T cell differentiation involved in immune response"
## "hepatic immune response"
## "pyrimidine ribonucleotide biosynthetic process"
## "selenocysteine biosynthetic process"
## "chemorepulsion involved in embryonic olfactory bulb interneuron precursor migration"
## "regulation of prostaglandin biosynthetic process"
## "regulation of protein dephosphorylation"
## "positive regulation of cell volume"
## "tRNA seleno-modification"
## "metanephric loop of Henle development"
## "negative regulation of the force of heart contraction"
## "negative regulation of arginine catabolic process"
## "calcium ion export"
## "negative regulation of polyamine transmembrane transport"
## "negative regulation of citrulline biosynthetic process"
## "response to acetylcholine"
## "positive regulation of miRNA catabolic process"
## "phosphatidylethanolamine acyl-chain remodeling"
## "embryonic heart tube left/right pattern formation"
## "regulation of slow-twitch skeletal muscle fiber contraction"
## "chylomicron assembly"
## "cilium movement"
## "response to fluoride"
## "positive regulation of adenosine receptor signaling pathway"
## "Golgi to endosome transport"
## "taurine transport"
## "regulation of bone mineralization"
## "regulation of mast cell apoptotic process"
## "negative regulation of dermatome development"
## "transepithelial ammonium transport"
## "negative regulation of mononuclear cell migration"
## "distal tubule morphogenesis"
## "3'-phospho-5'-adenylyl sulfate transmembrane transport"
## "natural killer cell differentiation"
## "collecting duct development"

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##      "regulation of integrin-mediated signaling pathway"
##      "lipid biosynthetic process"
##      "neutrophil mediated immunity"
##      "tyrosyl-tRNA aminoacylation"
##      "protein geranylgeranylation"
##      "dTTP biosynthetic process"
##      "protein destabilization"
##      "Factor XII activation"
##      "positive regulation of macromolecule biosynthetic process"
##      "negative regulation of chemokine biosynthetic process"
##      "positive regulation of lipoprotein metabolic process"
##      "mamillary axonal complex development"
##      "mitochondrial tyrosyl-tRNA aminoacylation"
##      "mitochondrial tRNA modification"
##      "cementum mineralization"
##      "microtubule plus-end directed mitotic chromosome migration"
##      "lateral attachment of mitotic spindle microtubules to kinetochore"
##      "regulation of relaxation of muscle"
##      "positive regulation of lens fiber cell differentiation"
##      "ganglioside GM1 transport to membrane"
##      "calcium ion regulated lysosome exocytosis"
##      "regulation of barbed-end actin filament capping"
##      "regulation of Ras protein signal transduction"
##      "negative regulation of alkaline phosphatase activity"
##      "striated muscle tissue development"
##      "positive regulation of interleukin-12 biosynthetic process"
##      "positive regulation of telomere capping"
##      "embryonic skeletal joint morphogenesis"
##      "response to odorant"
##      "isotype switching"
##      "chronological cell aging"
##      "hair cycle process"
##      "iron assimilation by chelation and transport"
##      "negative regulation by host of viral process"
##      "stereocilium maintenance"
##      "positive regulation of bone mineralization involved in bone maturation"
##      "late endosome to lysosome transport"
##      "regulation of protein targeting"
##      "negative regulation of tumor necrosis factor (ligand) superfamily member 11 production"
##      "negative regulation of interleukin-5 secretion"
##      "mature B cell differentiation"
##      "immunoglobulin secretion involved in immune response"
##      "rRNA methylation"
##      "very long-chain fatty-acyl-CoA metabolic process"
##      "positive regulation of behavioral fear response"
##      "nuclear envelope organization"
##      "nuclear DNA replication"
##      "spindle assembly"
##      "negative regulation of sodium ion transmembrane transport"
##      "negative regulation of defense response to virus by host"
##      "negative regulation of low-density lipoprotein receptor activity"
##      "rRNA modification"
##      "regulation of protein catabolic process at presynapse, modulating synaptic transmission"
##      "protein methylation"

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## "positive regulation of protein binding"
## "positive regulation of caveolin-mediated endocytosis"
## "dihydrofolate biosynthetic process"
## "carbohydrate mediated signaling"
## "polarity specification of anterior/posterior axis"
## "positive regulation of skeletal muscle cell proliferation"
## "cell migration involved in kidney development"
## "desmosome disassembly"
## "hemoglobin biosynthetic process"
## "membrane biogenesis"
## "tetrahydrofolylpolyglutamate biosynthetic process"
## "germline cell cycle switching, mitotic to meiotic cell cycle"
## "trachea morphogenesis"
## "right lung development"
## "left lung development"
## "primary prostatic bud elongation"
## "pulmonary vein morphogenesis"
## "regulation of prostatic bud formation"
## "regulation of mesenchymal cell proliferation involved in prostate gland development"
## "mesenchymal smoothened signaling pathway involved in prostate gland development"
## "positive regulation of sclerotome development"
## "planar cell polarity pathway involved in heart morphogenesis"
## "G1 to G0 transition involved in cell differentiation"
## "establishment of planar polarity involved in neural tube closure"
## "regulation of nodal signaling pathway involved in determination of lateral mesoderm"
## "negative regulation of cell-cell adhesion by negative regulation of transcription"
## "regulation of melanosome organization"
## "positive regulation of oxidative stress-induced cell death"
## "negative regulation of metalloendopeptidase activity"
## "tracheoesophageal septum formation"
## "negative regulation of ureter smooth muscle cell differentiation"
## "positive regulation of ureter smooth muscle cell differentiation"
## "negative regulation of kidney smooth muscle cell differentiation"
## "positive regulation of kidney smooth muscle cell differentiation"
## "respiratory tube development"
## "chemorepulsion of dopaminergic neuron axon"
## "regulation of double-strand break repair via nonhomologous end joining"
## "optic cup structural organization"
## "response to immobilization stress"
## "positive regulation of fibroblast growth factor receptor signaling pathway"
## "DNA strand elongation"
## "regulation of heterotypic cell-cell adhesion"
## "regulation of toll-like receptor 3 signaling pathway"
## "positive regulation of hair cycle"
## "anterograde dendritic transport"
## "positive regulation of transdifferentiation"
## "negative regulation of production of siRNA involved in RNA interference"
## "comma-shaped body morphogenesis"
## "S-shaped body morphogenesis"
## "regulation of protein deacetylation"
## "immunoglobulin secretion"
## "regulation of cardiac muscle cell proliferation"
## "thyroid hormone transport"
## "ribonucleoprotein complex localization"

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##      "mannosylation"
##      "regulation of hepatocyte proliferation"
##      "regulation of store-operated calcium entry"
##      "regulation of chromatin assembly or disassembly"
##      "tRNA dihydrouridine synthesis"
##      "cardiogenic plate morphogenesis"
##      "skeletal muscle satellite cell commitment"
##      "cerebral cortex GABAergic interneuron differentiation"
##      "membrane docking"
##      "negative regulation of myeloid cell apoptotic process"
##      "regulation of transcription from RNA polymerase II promoter involved in definitive hematopoiesis"
##      "negative regulation of metanephric glomerular mesangial cell proliferation"
##      "histone H3-T3 phosphorylation"
##      "membrane repolarization during bundle of His cell action potential"
##      "membrane repolarization during SA node cell action potential"
##      "response to antineoplastic agent"
##      "negative regulation of sensory perception of pain"
##      "regulation of cardiac cell fate specification"
##      "negative regulation of neural precursor cell proliferation"
##      "regulation of gene silencing"
##      "neurotransmitter receptor transport postsynaptic membrane to endosome"
##      "steroid hormone receptor complex assembly"
##      "protein localization by the Cvt pathway"
##      "positive regulation of adenylate cyclase-inhibiting dopamine receptor signaling pathway"
##      "insulin secretion"
##      "positive regulation of translational initiation in response to stress"
##      "cell death in response to hydrogen peroxide"
##      "polysaccharide digestion"
##      "positive regulation of T-helper cell differentiation"
##      "venous blood vessel morphogenesis"
##      "negative regulation of NK T cell proliferation"
##      "glutamate reuptake"
##      "positive regulation of endoplasmic reticulum stress-induced eIF2 alpha dephosphorylation"
##      "positive regulation of hepatic stellate cell proliferation"
##      "G protein-coupled receptor catabolic process"
##      "positive regulation of SREBP signaling pathway"
##      "renal vesicle induction"
##      "endodermal cell differentiation"
##      "glomerular visceral epithelial cell migration"
##      "tRNA-type intron splice site recognition and cleavage"
##      "fucose metabolic process"
##      "insulin processing"
##      "negative regulation of plasma lipoprotein oxidation"
##      "sequestering of neurotransmitter"
##      "S-adenosylhomocysteine metabolic process"
##      "system development"
##      "stem cell fate specification"
##      "heterochromatin assembly involved in chromatin silencing"
##      "positive regulation of tubulin deacetylation"
##      "regulation of post-translational protein modification"
##      "negative regulation of ATF6-mediated unfolded protein response"
##      "regulation of neutrophil extravasation"
##      "positive regulation of innate immune response"
##      "segmentation"

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## "histone H2B conserved C-terminal lysine deubiquitination"
## "negative regulation of keratinocyte migration"
## "positive regulation of single-stranded telomeric DNA binding"
## "negative regulation of transcription from RNA polymerase II promoter in response"
## "maintenance of unfolded protein involved in ERAD pathway"
## "telomere-telomerase complex assembly"
## "maintenance of postsynaptic density structure"
## "cell proliferation in forebrain"
## "positive regulation of t-circle formation"
## "oculomotor nerve formation"
## "metanephric part of ureteric bud development"
## "RNA phosphodiester bond hydrolysis, exonucleolytic"
## "regulation of urine volume"
## "trehalose metabolic process"
## "trehalose catabolic process"
## "sorbitol catabolic process"
## "isoprenoid metabolic process"
## "ribonucleoside diphosphate catabolic process"
## "BMP signaling pathway involved in spinal cord dorsal/ventral patterning"
## "slow endocytic recycling"
## "histone H3-K23 acetylation"
## "L-xylitol catabolic process"
## "L-xylitol metabolic process"
## "regulation of neurotrophin TRK receptor signaling pathway"
## "carbohydrate derivative metabolic process"
## "positive regulation of peptidyl-serine dephosphorylation"
## "positive regulation of granulocyte macrophage colony-stimulating factor production"
## "positive regulation of nuclear-transcribed mRNA poly(A) tail shortening"
## "base-excision repair, DNA ligation"
## "regulation of stress granule assembly"
## "positive regulation of peptidyl-lysine acetylation"
## "endonucleolytic cleavage to generate mature 3'-end of SSU-rRNA from (SSU-rRNA, 5.8S)"
## "intestinal epithelial cell maturation"
## "viral capsid secondary envelopment"
## "sister chromatid segregation"
## "nucleocytoplasmic transport"
## "positive regulation of type B pancreatic cell development"
## "cysteinyI-tRNA aminoacylation"
## "smooth muscle adaptation"
## "lipopolysaccharide transport"
## "long-chain fatty-acyl-CoA metabolic process"
## "positive regulation of myosin light chain kinase activity"
## "response to platelet-derived growth factor"
## "positive regulation of NK T cell proliferation"
## "cellular response to tumor cell"
## "positive regulation of macrophage migration"
## "negative regulation of branching morphogenesis of a nerve"
## "negative regulation of hydrogen peroxide catabolic process"
## "positive regulation of blood microparticle formation"
## "regulation of membrane repolarization"
## "negative regulation of interferon-beta biosynthetic process"
## "negative regulation of membrane protein ectodomain proteolysis"
## "positive regulation of tooth mineralization"
## "retrograde transport, endosome to plasma membrane"

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##      "response to metal ion"
##      "positive regulation of satellite cell activation involved in skeletal muscle regenera
##      "organic anion transport"
##      "trimming of terminal mannose on B branch"
##      "trimming of first mannose on A branch"
##      "trimming of second mannose on A branch"
##      "regulation of histone H3-K9 methylation"
##      "cytosolic calcium ion transport"
##      "N-acylethanolamine metabolic process"
##      "regulation of protein exit from endoplasmic reticulum"
##      "regulation of mitotic spindle assembly"
##      "regulation of tumor necrosis factor production"
##      "negative regulation of collagen binding"
##      "sequestering of triglyceride"
##      "chromatin maintenance"
##      "cardiac left ventricle formation"
##      "pyridoxal phosphate catabolic process"
##      "negative regulation of mast cell activation involved in immune response"
##      "dorsal aorta development"
##      "gamma-delta T cell activation"
##      "negative regulation of cholesterol transporter activity"
##      "muscle structure development"
##      "negative regulation of interleukin-6-mediated signaling pathway"
##      "olfactory bulb axon guidance"
##      "negative regulation of interleukin-2-mediated signaling pathway"
##      "negative regulation of interleukin-4-mediated signaling pathway"
##      "negative regulation of positive thymic T cell selection"
##      "DNA strand elongation involved in mitotic DNA replication"
##      "positive regulation of androgen secretion"
##      "cellular chloride ion homeostasis"
##      "regulation of meiotic cell cycle"
##      "osteoclast proliferation"
##      "lymphocyte differentiation"
##      "fatty acid catabolic process"
##      "positive regulation of interferon-gamma production"
##      "negative regulation of melanin biosynthetic process"
##      "positive regulation of calcium-mediated signaling"
##      "regulation of telomerase RNA localization to Cajal body"
##      "phosphatidylglycerol acyl-chain remodeling"
##      "pyrimidine nucleoside salvage"
##      "ATP hydrolysis coupled transmembrane transport"
##      "IMP metabolic process"
##      "negative regulation of cardiac muscle contraction"
##      "interleukin-2 secretion"
##      "RNA catabolic process"
##      "chloride ion homeostasis"
##      "right ventricular compact myocardium morphogenesis"
##      "detection of virus"
##      "vascular endothelial growth factor receptor-1 signaling pathway"
##      "regulation of signal transduction by receptor internalization"
##      "positive regulation of glial cell differentiation"
##      "regulation of nerve growth factor receptor activity"
##      "microtubule nucleation by spindle pole body"
##      "negative regulation of sarcomere organization"

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"negative regulation of membrane depolarization during cardiac muscle cell action p
 ## "negative regulation of mesenchymal cell proliferation involved in lung development
 ## "fibroblast migration"
 ## "pituitary gland development"
 ## "microglial cell proliferation"
 ## "trachea gland development"
 ## "nuclear polyadenylation-dependent rRNA catabolic process"
 ## "protein localization to bicellular tight junction"
 ## "regulation of hormone metabolic process"
 ## "vacuolar protein processing"
 ## "oocyte differentiation"
 ## "cell motility involved in cerebral cortex radial glia guided migration"
 ## "positive regulation of myeloid dendritic cell activation"
 ## "negative regulation of synaptic transmission, dopaminergic"
 ## "regulation of DNA endoreduplication"
 ## "regulation of actin filament-based process"
 ## "pronephric field specification"
 ## "branch elongation of an epithelium"
 ## "cellular response to growth factor stimulus"
 ## "negative regulation of mesenchymal cell apoptotic process involved in metanephric
 ## "interneuron axon guidance"
 ## "negative regulation of apoptotic process involved in metanephric collecting duct c
 ## "negative regulation of apoptotic process involved in metanephric nephron tubule d
 ## "negative regulation of smooth muscle cell-matrix adhesion"
 ## "positive regulation of metanephric DCT cell differentiation"
 ## "regulation of progesterone secretion"
 ## "regulation of protein import into nucleus, translocation"
 ## "regulation of gene expression, epigenetic"
 ## "thyroid gland development"
 ## "developmental process involved in reproduction"
 ## "positive regulation of humoral immune response mediated by circulating immunoglob
 ## "lipid transport involved in lipid storage"
 ## "regulation of protein homooligomerization"
 ## "protein localization to M-band"
 ## "maintenance of location in cell"
 ## "positive regulation of postsynaptic membrane organization"
 ## "negative regulation of presynaptic membrane organization"
 ## "positive regulation of lipid transport across blood brain barrier"
 ## "positive regulation of heparan sulfate binding"
 ## "positive regulation of heparan sulfate proteoglycan binding"
 ## "regulation of cellular response to very-low-density lipoprotein particle stimulus"
 ## "negative regulation of clathrin-dependent endocytosis"
 ## "meiotic DNA repair synthesis"
 ## "SRP-dependent cotranslational protein targeting to membrane, signal sequence recog
 ## "regulation of skeletal muscle contraction via regulation of action potential"
 ## "absorption of visible light"
 ## "regulation of actin filament bundle assembly"
 ## "isopentenyl diphosphate metabolic process"
 ## "alpha-beta T cell proliferation"
 ## "DNA ligation involved in DNA repair"
 ## "negative regulation of cytosolic calcium ion concentration"
 ## "negative regulation of elastin biosynthetic process"
 ## "establishment of blood-brain barrier"
 ## "regulation of lysosomal membrane permeability"

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##      "regulation of nodal signaling pathway"
##      "negative regulation of single-species biofilm formation in or on host organism"
##      "negative regulation of chorionic trophoblast cell proliferation"
##      "negative regulation of mitotic cell cycle phase transition"
##      "negative regulation of adherens junction organization"
##      "tricellular tight junction assembly"
##      "negative regulation of beta-catenin-TCF complex assembly"
##      "regulation of miRNA metabolic process"
##      "hypothalamus cell migration"
##      "gall bladder development"
##      "positive regulation of histone deubiquitination"
##      "box H/ACA snoRNA 3'-end processing"
##      "regulation of synaptic plasticity"
##      "cellular response to dexamethasone stimulus"
##      "N-terminal protein amino acid acetylation"
##      "positive regulation of centriole elongation"
##      "protein lipidation"
##      "RNA 5'-end processing"
##      "antigen processing and presentation of endogenous peptide antigen via MHC class II"
##      "cerebellar molecular layer formation"
##      "regulation of skeletal muscle tissue growth"
##      "definitive erythrocyte differentiation"
##      "left lung morphogenesis"
##      "epithelial cell maturation involved in salivary gland development"
##      "Notch signaling pathway involved in arterial endothelial cell fate commitment"
##      "positive regulation of meiosis I"
##      "positive regulation of glutamate neurotransmitter secretion in response to membrane depolarization"
##      "skin epidermis development"
##      "positive regulation of plasma cell differentiation"
##      "positive regulation of cation transmembrane transport"
##      "negative regulation of cardiac vascular smooth muscle cell differentiation"
##      "nuclear-transcribed mRNA catabolic process, endonucleolytic cleavage-dependent decay"
##      "DNA clamp unloading"
##      "outer dynein arm assembly"
##      "negative regulation of vitamin D receptor signaling pathway"
##      "metanephric nephron tubule formation"
##      "myeloid dendritic cell activation"
##      "membrane protein proteolysis"
##      "chemotaxis to arachidonic acid"
##      "regulation of glial cell proliferation"
##      "myeloid dendritic cell activation involved in immune response"
##      "negative regulation of cellular protein metabolic process"
##      "negative regulation of Ras protein signal transduction"
##      "regulation of sequestering of zinc ion"
##      "regulation of histone H3-K36 methylation"
##      "female meiosis II"
##      "motor neuron axon guidance"
##      "female gonad development"
##      "fourth ventricle development"
##      "initiation of neural tube closure"
##      "negative regulation of myeloid dendritic cell activation"
##      "dADP catabolic process"
##      "dGDP catabolic process"
##      "GDP catabolic process"

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##      "axon extension involved in regeneration"
##      "synaptic transmission, glycinergic"
##      "metanephric glomerular basement membrane development"
##      "establishment of protein localization to endoplasmic reticulum"
##      "positive regulation of polyamine transmembrane transport"
##      "response to X-ray"
##      "protein prenylation"
##      "bile acid biosynthetic process"
##      "secretory granule organization"
##      "positive regulation of phospholipid efflux"
##      "ciliary transition zone assembly"
##      "cellular response to erythropoietin"
##      "negative regulation by virus of viral protein levels in host cell"
##      "renal tubule development"
##      "negative regulation of metanephric nephron tubule epithelial cell differentiation"
##      "positive regulation of anterior head development"
##      "modification of synaptic structure, modulating synaptic transmission"
##      "regulation of TORC1 signaling"
##      "DNA replication-independent nucleosome assembly"
##      "interleukin-9-mediated signaling pathway"
##      "methionyl-tRNA aminoacylation"
##      "apoptotic process involved in endocardial cushion morphogenesis"
##      "peptide transport"
##      "positive regulation of interleukin-1 alpha production"
##      "positive regulation of natural killer cell activation"
##      "tendon cell differentiation"
##      "positive regulation of melanin biosynthetic process"
##      "intermediate mesodermal cell differentiation"
##      "positive regulation of cardiac muscle fiber development"
##      "bronchus development"
##      "orthogonal dichotomous subdivision of terminal units involved in lung branching morphogenesis"
##      "planar dichotomous subdivision of terminal units involved in lung branching morphogenesis"
##      "lateral sprouting involved in lung morphogenesis"
##      "bud dilation involved in lung branching"
##      "mammary gland formation"
##      "positive regulation of branching involved in lung morphogenesis"
##      "BMP signaling pathway involved in ureter morphogenesis"
##      "BMP signaling pathway involved in renal system segmentation"
##      "pulmonary artery endothelial tube morphogenesis"
##      "establishment of protein localization to juxtaparanode region of axon"
##      "BMP signaling pathway involved in nephric duct formation"
##      "negative regulation of branch elongation involved in ureteric bud branching by BMP signaling pathway"
##      "specification of ureteric bud anterior/posterior symmetry by BMP signaling pathway"
##      "mesonephric tubule formation"
##      "ureter epithelial cell differentiation"
##      "mesenchymal cell proliferation involved in ureter development"
##      "negative regulation of mesenchymal cell proliferation involved in ureter development"
##      "negative regulation of glomerulus development"
##      "dopamine uptake"
##      "presynaptic membrane organization"
##      "positive regulation of macrophage colony-stimulating factor production"
##      "positive regulation of cell proliferation involved in outflow tract morphogenesis"
##      "regulation of early endosome to recycling endosome transport"
##      "brush border assembly"

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"cardiac jelly development"
 ## "cellular response to 3,3',5-triiodo-L-thyronine"
 ## "negative regulation of metanephric S-shaped body morphogenesis"
 ## "negative regulation of metanephric comma-shaped body morphogenesis"
 ## "negative regulation of cell proliferation involved in heart morphogenesis"
 ## "spinal cord dorsal/ventral patterning"
 ## "optic vesicle morphogenesis"
 ## "dendritic cell proliferation"
 ## "positive regulation of telomeric DNA binding"
 ## "negative regulation of striated muscle cell apoptotic process"
 ## "negative regulation of triglyceride metabolic process"
 ## "negative regulation of L-glutamate import across plasma membrane"
 ## "cyclic nucleotide catabolic process"
 ## "branchiomic skeletal muscle development"
 ## "sulfur oxidation"
 ## "platelet maturation"
 ## "Fc-gamma receptor signaling pathway"
 ## "G1 DNA damage checkpoint"
 ## "histone H2B conserved C-terminal lysine ubiquitination"
 ## "regulation of protein kinase C signaling"
 ## "type B pancreatic cell apoptotic process"
 ## "histone H3-K36 dimethylation"
 ## "regulation of membrane depolarization during action potential"
 ## "negative regulation of mitotic recombination"
 ## "excitatory chemical synaptic transmission"
 ## "androgen catabolic process"
 ## "autophagic cell death"
 ## "positive regulation of granzyme B production"
 ## "mRNA pseudouridine synthesis"
 ## "box C/D snoRNA 3'-end processing"
 ## "negative regulation of mitochondrial RNA catabolic process"
 ## "negative regulation of type I hypersensitivity"
 ## "negative regulation of antibody-dependent cellular cytotoxicity"
 ## "follicular dendritic cell activation"
 ## "immune complex clearance by monocytes and macrophages"
 ## "regulation of B cell antigen processing and presentation"
 ## "antibacterial peptide secretion"
 ## "response to type III interferon"
 ## "uterine wall breakdown"
 ## "sequestering of metal ion"
 ## "reflex"
 ## "positive regulation of calcidiol 1-monooxygenase activity"
 ## "recycling endosome to Golgi transport"
 ## "regulation of immune complex clearance by monocytes and macrophages"
 ## "oxidised low-density lipoprotein particle clearance"
 ## "positive regulation of response to endoplasmic reticulum stress"
 ## "histone glutamine methylation"
 ## "negative regulation of sodium-dependent phosphate transport"
 ## "positive regulation of protein lipidation"
 ## "cardiolipin acyl-chain remodeling"
 ## "ribosome biogenesis"
 ## "natural killer cell mediated immunity"
 ## "late viral transcription"
 ## "regulation of Ral protein signal transduction"

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## "response to gravity"
## "activation of phospholipase D activity"
## "nuclear-transcribed mRNA catabolic process, no-go decay"
## "positive regulation of ferrous iron binding"
## "positive regulation of transferrin receptor binding"
## "endomitotic cell cycle"
## "cellular response to molecule of fungal origin"
## "phytol metabolic process"
## "hexadecanal metabolic process"
## "positive regulation of inflammatory response"
## "peripheral nervous system myelin formation"
## "conversion of ds siRNA to ss siRNA involved in RNA interference"
## "leukotriene B4 catabolic process"
## "conversion of ds siRNA to ss siRNA"
## "regulation of systemic arterial blood pressure by ischemic conditions"
## "N-glycan processing to lysosome"
## "intein-mediated protein splicing"
## "cellular response to insulin stimulus"
## "cholesterol biosynthetic process via 24,25-dihydrolanosterol"
## "purinergic nucleotide receptor signaling pathway"
## "rRNA transport"
## "membrane disruption in other organism"
## "fungiform papilla morphogenesis"
## "positive regulation of granulocyte colony-stimulating factor production"
## "fibroblast activation"
## "negative regulation of ferroptosis"
## "extracellular vesicle biogenesis"
## "negative regulation of neutrophil activation"
## "regulation of retrograde vesicle-mediated transport, Golgi to ER"
## "positive regulation of N-terminal peptidyl-lysine acetylation"
## "regulation of T cell mediated immune response to tumor cell"
## "regulation of restriction endodeoxyribonuclease activity"
## "regulation of CD4-positive, alpha-beta T cell differentiation"
## "tumor necrosis factor secretion"
## "neuroblast division in subventricular zone"
## "negative regulation of B cell differentiation"
## "ceramide biosynthetic process"
## "positive regulation of interferon-gamma biosynthetic process"
## "biomineral tissue development"
## "engulfment of target by autophagosome"
## "substrate localization to autophagosome"
## "protein targeting to vacuole involved in autophagy"
## "DNA ligation"
## "T-helper 1 cell activation"
## "N-terminal peptidyl-alanine trimethylation"
## "N-terminal peptidyl-glycine methylation"
## "N-terminal peptidyl-proline dimethylation"
## "forebrain neuron differentiation"
## "N-terminal peptidyl-serine dimethylation"
## "N-terminal peptidyl-serine trimethylation"
## "sequestering of BMP in extracellular matrix"
## "amino acid import"
## "diencephalon morphogenesis"
## "heterotrimeric G-protein complex assembly"

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## "negative regulation of cation channel activity"
## "androgen metabolic process"
## "CD40 signaling pathway"
## "antigen processing and presentation of exogenous protein antigen via MHC class Ib"
## "cellular response to caloric restriction"
## "negative regulation of oligodendrocyte progenitor proliferation"
## "regulation of neural precursor cell proliferation"
## "microspike assembly"
## "smooth endoplasmic reticulum calcium ion homeostasis"
## "metanephric comma-shaped body morphogenesis"
## "melanocyte differentiation"
## "endonucleolytic cleavage in ITS1 to separate SSU-rRNA from 5.8S rRNA and LSU-rRNA"
## "positive regulation of osteoblast differentiation"
## "regulation of release of sequestered calcium ion into cytosol"
## "response to drug"
## "serine phosphorylation of STAT protein"
## "antibacterial peptide production"
## "positive regulation of inflammatory response to antigenic stimulus"
## "glutamate decarboxylation to succinate"
## "muscle cell fate specification"
## "positive T cell selection"
## "cGMP catabolic process"
## "determination of affect"
## "neuroendocrine cell differentiation"
## "retrograde trans-synaptic signaling by nitric oxide"
## "positive regulation of adenylate cyclase-activating adrenergic receptor signaling"
## "negative regulation of mesenchymal cell apoptotic process involved in metanephros"
## "positive regulation of interleukin-18-mediated signaling pathway"
## "oligosaccharide catabolic process"
## "cardiac conduction system development"
## "cardiac ventricle formation"
## "negative regulation of action potential"
## "regulation of developmental pigmentation"
## "cellular water homeostasis"
## "regulation of cell communication by electrical coupling"
## "maintenance of lens transparency"
## "calcium ion transmembrane import into cytosol"
## "negative regulation of Golgi to plasma membrane protein transport"
## "establishment of meiotic spindle orientation"
## "negative regulation of monocyte chemotaxis"
## "negative regulation of metaphase/anaphase transition of meiotic cell cycle"
## "potassium ion import across plasma membrane"
## "negative regulation of apoptotic cell clearance"
## "Ran protein signal transduction"
## "protein insertion into ER membrane"
## "forebrain ventricular zone progenitor cell division"
## "fructosamine metabolic process"
## "positive regulation of collagen binding"
## "detection of diacyl bacterial lipopeptide"
## "farnesyl diphosphate metabolic process"
## "regulation of nitric oxide biosynthetic process"
## "lung secretory cell differentiation"
## "regulation of glucagon secretion"
## "interleukin-21 secretion"

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"synaptic vesicle lumen acidification"
 ## "negative regulation of lung goblet cell differentiation"
 ## "regulation of macrophage colony-stimulating factor production"
 ## "regulation of midbrain dopaminergic neuron differentiation"
 ## "negative regulation of planar cell polarity pathway involved in axis elongation"
 ## "regulation of interleukin-12 secretion"
 ## "termination of signal transduction"
 ## "positive regulation of guanylate cyclase activity"
 ## "circadian rhythm"
 ## "rod bipolar cell differentiation"
 ## "response to ciliary neurotrophic factor"
 ## "negative regulation of neuromuscular junction development"
 ## "negative regulation of dendritic cell differentiation"
 ## "negative regulation of interleukin-13 production"
 ## "regulation of growth"
 ## "menaquinone catabolic process"
 ## "vitamin K catabolic process"
 ## "deactivation of mitotic spindle assembly checkpoint"
 ## "regulation of glucose mediated signaling pathway"
 ## "negative regulation of protein localization to kinetochore"
 ## "positive regulation of DNA-dependent DNA replication"
 ## "transcription initiation from mitochondrial promoter"
 ## "mRNA export from nucleus in response to heat stress"
 ## "regulation of exit from mitosis"
 ## "positive regulation of cell size"
 ## "positive regulation of toll-like receptor 9 signaling pathway"
 ## "eIF2alpha phosphorylation in response to endoplasmic reticulum stress"
 ## "histone H2A K63-linked deubiquitination"
 ## "drug transport"
 ## "medial motor column neuron differentiation"
 ## "detection of triacyl bacterial lipopeptide"
 ## "epithelial cell morphogenesis involved in placental branching"
 ## "regulation of endothelial cell apoptotic process"
 ## "PML body organization"
 ## "regulation of interleukin-4 production"
 ## "ferric iron import"
 ## "positive regulation of activated T cell autonomous cell death"
 ## "regulation of lysosomal protein catabolic process"
 ## "interleukin-23-mediated signaling pathway"
 ## "rDNA condensation"
 ## "regulation of the force of heart contraction by cardiac conduction"
 ## "positive regulation of mitotic cohesin loading"
 ## "anterior/posterior axis specification"
 ## "COPI-coated vesicle budding"
 ## "vesicle targeting, to, from or within Golgi"
 ## "rhythmic synaptic transmission"
 ## "cellular response to cAMP"
 ## "heart morphogenesis"
 ## "pancreatic A cell differentiation"
 ## "D-ribose metabolic process"
 ## "enzyme active site formation via cysteine modification to L-cysteine persulfide"
 ## "cerebellum formation"
 ## "midbrain-hindbrain boundary maturation during brain development"
 ## "phosphoanandamide dephosphorylation"

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## "astrocyte-dopaminergic neuron signaling"
## "dATP catabolic process"
## "male gamete generation"
## "negative regulation of mesenchymal cell apoptotic process involved in nephron morphogenesis"
## "metanephric distal convoluted tubule development"
## "cellular response to 2,3,7,8-tetrachlorodibenzodioxine"
## "response to phosphatidylethanolamine"
## "histone ubiquitination"
## "regulation of potassium ion transmembrane transporter activity"
## "negative regulation of amyloid precursor protein catabolic process"
## "retinal rod cell differentiation"
## "inositol lipid-mediated signaling"
## "positive regulation of Fc-gamma receptor signaling pathway involved in phagocytosis"
## "single strand break repair"
## "positive regulation of blood vessel diameter"
## "regulation of cell cycle process"
## "smooth muscle cell-matrix adhesion"
## "cellular response to nitroglycerin"
## "regulation of establishment or maintenance of cell polarity"
## "microtubule-based peroxisome localization"
## "action potential"
## "T-helper 1 type immune response"
## "spermidine metabolic process"
## "myosin filament assembly"
## "polysaccharide localization"
## "cellular pigment accumulation"
## "regulation of insulin-like growth factor receptor signaling pathway"
## "regulation of interleukin-12 biosynthetic process"
## "regulation of circadian sleep/wake cycle, non-REM sleep"
## "skeletal muscle tissue growth"
## "constitutive protein ectodomain proteolysis"
## "motor learning"
## "positive regulation of brown fat cell proliferation"
## "positive regulation of hyaluronan cable assembly"
## "negative regulation of natural killer cell chemotaxis"
## "mitotic G1/S transition checkpoint"
## "Golgi to lysosome transport"
## "positive regulation of chaperone-mediated autophagy"
## "chondrocyte proliferation"
## "response to inactivity"
## "triglyceride transport"
## "developmental cell growth"
## "cytoskeleton-dependent cytokinesis"
## "cellular response to misfolded protein"
## "type I interferon biosynthetic process"
## "negative regulation of fibroblast proliferation"
## "plasma kallikrein-kinin cascade"
## "negative regulation of lamellipodium assembly"
## "peptidyl-pyroglutamic acid biosynthetic process, using glutaminy-peptide cyclotransferase"
## "vacuole fusion, non-autophagic"
## "positive regulation of interleukin-13 biosynthetic process"
## "regulation of T-helper cell differentiation"
## "spermidine catabolic process"
## "negative regulation of muscle tissue development"

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##      "regulation of membrane hyperpolarization"
##      "positive regulation of voltage-gated potassium channel activity involved in ventr
##      "negative regulation of skeletal muscle hypertrophy"
##      "response to symbiotic bacterium"
##      "negative regulation of actin filament depolymerization"
##      "anterior/posterior axon guidance"
##      "coronary sinus valve morphogenesis"
##      "cardiac right atrium morphogenesis"
##      "growth involved in heart morphogenesis"
##      "Notch signaling pathway involved in regulation of secondary heart field cardiobla
##      "foregut morphogenesis"
##      "cell differentiation in spinal cord"
##      "regulation of cellular localization"
##      "regulation of epithelial cell proliferation involved in prostate gland developmen
##      "venous endothelial cell differentiation"
##      "positive regulation of aorta morphogenesis"
##      "third ventricle development"
##      "rRNA base methylation"
##      "response to testosterone"
##      "regulation of amyloid-beta clearance"
##      "RNA secondary structure unwinding"
##      "regulation of synaptic vesicle fusion to presynaptic active zone membrane"
##      "nitrogen catabolite activation of transcription from RNA polymerase II promoter"
##      "IMP biosynthetic process"
##      "glucose mediated signaling pathway"
##      "myo-inositol transport"
##      "response to silicon dioxide"
##      "regulation of urea metabolic process"
##      "intracellular bile acid receptor signaling pathway"
##      "dermatan sulfate proteoglycan metabolic process"
##      "negative regulation of chemotaxis"
##      "cyclic purine nucleotide metabolic process"
##      "semicircular canal development"
##      "positive regulation of kidney development"
##      "positive regulation of phosphatidic acid biosynthetic process"
##      "positive regulation of glutamate metabolic process"
##      "regulation of forebrain neuron differentiation"
##      "positive regulation of ammonia assimilation cycle"
##      "sphingomyelin biosynthetic process"
##      "negative regulation of G protein-coupled receptor internalization"
##      "TRIF-dependent toll-like receptor signaling pathway"
##      "regulation of telomere maintenance"
##      "lateral inhibition"
##      "telomere maintenance via telomere trimming"
##      "positive regulation of CDP-diacylglycerol-serine O-phosphatidyltransferase activi
##      "positive regulation of serine C-palmitoyltransferase activity"
##      "cerebrospinal fluid secretion"
##      "carbon dioxide transmembrane transport"
##      "maintenance of symbiont-containing vacuole by host"
##      "cardiac chamber formation"
##      "acetylcholine receptor signaling pathway"
##      "monocyte differentiation"
##      "axon extension"
##      "positive regulation of estradiol secretion"

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##      "inosine catabolic process"
##      "proline metabolic process"
##      "pyridoxal 5'-phosphate salvage"
##      "proline catabolic process to glutamate"
##      "ventral spinal cord interneuron specification"
##      "negative regulation of organ growth"
##      "axial mesoderm morphogenesis"
##      "mesoderm morphogenesis"
##      "mitotic spindle midzone assembly"
##      "cell differentiation involved in salivary gland development"
##      "regulation of neural retina development"
##      "regulation of branch elongation involved in ureteric bud branching"
##      "protein localization to cell junction"
##      "positive regulation of ATF6-mediated unfolded protein response"
##      "positive regulation of interleukin-12 secretion"
##      "replicative cell aging"
##      "spindle pole body organization"
##      "negative regulation of fatty acid metabolic process"
##      "regulation of TORC2 signaling"
##      "axonemal dynein complex assembly"
##      "proline catabolic process"
##      "negative regulation of interleukin-12 production"
##      "negative regulation of dendritic spine morphogenesis"
##      "activation of MAPKK activity"
##      "positive regulation of cytoplasmic translation"
##      "regulation of animal organ formation"
##      "mesoderm migration involved in gastrulation"
##      "negative regulation of transcription by transcription factor localization"
##      "integrin activation"
##      "adrenal cortex formation"
##      "acylglycerol acyl-chain remodeling"
##      "dopaminergic neuron axon guidance"
##      "serotonergic neuron axon guidance"
##      "negative regulation of phosphatidylinositol 3-kinase activity"
##      "positive regulation of lymphocyte differentiation"
##      "ribose phosphate biosynthetic process"
##      "regulation of myoblast proliferation"
##      "transmission of virus"
##      "development involved in symbiotic interaction"
##      "positive regulation of nucleocytoplasmic transport"
##      "regulation of amyloid fibril formation"
##      "adiponectin-activated signaling pathway"
##      "positive regulation by virus of viral protein levels in host cell"
##      "cellular response to caffeine"
##      "odontoblast differentiation"
##      "recombinational repair"
##      "negative regulation of type 2 immune response"
##      "cellular response to inorganic substance"
##      "negative regulation of cytotoxic T cell degranulation"
##      "regulation of protein localization to plasma membrane"
##      "response to nerve growth factor"
##      "right ventricular cardiac muscle tissue morphogenesis"
##      "5-methylcytosine catabolic process"
##      "skeletal muscle satellite cell differentiation"

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##      "antifungal humoral response"
##      "establishment of sister chromatid cohesion"
##      "hippo signaling"
##      "regulation of ribonuclease activity"
##      "Wnt protein secretion"
##      "regulation of complement-dependent cytotoxicity"
##      "allantois development"
##      "nucleolar chromatin organization"
##      "cellular response to sterol"
##      "gamma-aminobutyric acid secretion"
##      "establishment of body hair planar orientation"
##      "positive regulation of epithelial cell differentiation"
##      "detection of temperature stimulus involved in sensory perception of pain"
##      "negative regulation of mesenchymal to epithelial transition involved in metanephros development"
##      "negative regulation of substrate adhesion-dependent cell spreading"
##      "signal transduction downstream of smoothened"
##      "late endosome to Golgi transport"
##      "ventricular cardiac muscle tissue development"
##      "monosaccharide metabolic process"
##      "cGMP biosynthetic process"
##      "wax biosynthetic process"
##      "regulation of phosphatase activity"
##      "viral protein processing"
##      "poly-N-acetyllactosamine metabolic process"
##      "negative regulation of nerve growth factor production"
##      "circadian temperature homeostasis"
##      "dense core granule priming"
##      "dibasic protein processing"
##      "regulation of superoxide anion generation"
##      "positive regulation of interleukin-3 biosynthetic process"
##      "regulation of arachidonic acid secretion"
##      "telomere organization"
##      "epidermal growth factor receptor signaling pathway via I-kappaB kinase/NF-kappaB"
##      "cellular extravasation"
##      "glycerophospholipid metabolic process"
##      "peripheral nervous system neuron axonogenesis"
##      "cellular response to prostaglandin D stimulus"
##      "regulation of cholesterol esterification"
##      "Cajal body organization"
##      "ureter smooth muscle cell differentiation"
##      "detection of nodal flow"
##      "gamma-aminobutyric acid biosynthetic process"
##      "RNA modification"
##      "heparan sulfate proteoglycan metabolic process"
##      "protein O-linked fucosylation"
##      "interleukin-11-mediated signaling pathway"
##      "regulation of glutamate uptake involved in transmission of nerve impulse"
##      "response to linoleic acid"
##      "cellular response to hydrostatic pressure"
##      "metanephric cortex development"
##      "metanephric cortical collecting duct development"
##      "metanephric distal tubule development"
##      "ncRNA deadenylation"
##      "semaphorin-plexin signaling pathway involved in bone trabecula morphogenesis"

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##      "bundle of His development"
##      "phosphatidylcholine metabolic process"
##      "adult locomotory behavior"
##      "calcium-dependent cell-cell adhesion via plasma membrane cell adhesion molecules"
##      "lipopolysaccharide-mediated signaling pathway"
##      "cell-substrate junction assembly"
##      "ERK5 cascade"
##      "mitochondrial tRNA pseudouridine synthesis"
##      "negative regulation of macrophage colony-stimulating factor signaling pathway"
##      "renal water transport"
##      "cellular response to mercury ion"
##      "Sertoli cell differentiation"
##      "negative regulation of protein sumoylation"
##      "cell proliferation involved in outflow tract morphogenesis"
##      "cellular response to corticotropin-releasing hormone stimulus"
##      "positive regulation of mesenchymal stem cell migration"
##      "spindle midzone assembly"
##      "positive regulation of TORC2 signaling"
##      "phosphatidylglycerol biosynthetic process"
##      "zygotic specification of dorsal/ventral axis"
##      "negative regulation of toll-like receptor 9 signaling pathway"
##      "regulation of calcineurin-NFAT signaling cascade"
##      "histone H3-S10 phosphorylation"
##      "negative regulation of immature T cell proliferation in thymus"
##      "microtubule organizing center localization"
##      "response to pH"
##      "lateral motor column neuron migration"
##      "phosphatidylinositol acyl-chain remodeling"
##      "B cell costimulation"
##      "neurotransmitter receptor transport, endosome to postsynaptic membrane"
##      "substrate-dependent cell migration"
##      "phosphate ion transport"
##      "forebrain generation of neurons"
##      "regulation of molecular function, epigenetic"
##      "neurotransmitter catabolic process"
##      "vitamin E metabolic process"
##      "regulation of cell migration involved in sprouting angiogenesis"
##      "regulation of opsonization"
##      "negative regulation of sodium ion transport"
##      "ventricular cardiac myofibril assembly"
##      "positive regulation of apoptotic process involved in mammary gland involution"
##      "water homeostasis"
##      "negative regulation of antigen processing and presentation of peptide or polysacch
##      "AV node cell to bundle of His cell communication"
##      "membrane depolarization during Purkinje myocyte cell action potential"
##      "amine biosynthetic process"
##      "positive regulation of protein catabolic process"
##      "glomerular epithelium development"
##      "positive regulation of hematopoietic progenitor cell differentiation"
##      "positive regulation of hematopoietic stem cell differentiation"
##      "manganese ion transmembrane transport"
##      "regulation of exosomal secretion"
##      "regulation of morphogenesis of a branching structure"
##      "visual behavior"

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## "negative regulation of muscle hyperplasia"
## "globus pallidus development"
## "cellular localization"
## "presynapse organization"
## "positive regulation of peptidyl-cysteine S-nitrosylation"
## "regulation of translational termination"
## "positive regulation of histone H3-K36 methylation"
## "positive regulation of nodal signaling pathway involved in determination of later
## "regulation of DNA N-glycosylase activity"
## "renal protein absorption"
## "GABAergic neuron differentiation"
## "regulation of establishment of T cell polarity"
## "regulation of plasma membrane raft polarization"
## "regulation of receptor clustering"
## "glycerol transport"
## "positive regulation of skeletal muscle acetylcholine-gated channel clustering"
## "negative regulation of mitochondrial membrane potential"
## "diencephalon development"
## "cell dedifferentiation"
## "trans-Golgi network to recycling endosome transport"
## "excitatory postsynaptic potential"
## "establishment of mitotic spindle orientation"
## "histone H3-K79 methylation"
## "myoblast migration"
## "positive regulation of adherens junction organization"
## "regulation of transcription regulatory region DNA binding"
## "N-acetylmannosamine metabolic process"
## "skeletal muscle hypertrophy"
## "cell differentiation in hindbrain"
## "nerve maturation"
## "peptidyl-histidine hydroxylation"
## "ERBB2-ERBB3 signaling pathway"
## "interleukin-33-mediated signaling pathway"
## "peptidyl-asparagine hydroxylation"
## "sphingoid catabolic process"
## "estrogen catabolic process"
## "positive regulation of granulocyte macrophage colony-stimulating factor biosynthe
## "negative regulation of DNA recombination"
## "positive regulation of snRNA transcription by RNA polymerase II"
## "mesenchymal cell apoptotic process"
## "N-acetylglucosamine biosynthetic process"
## "early viral transcription"
## "convergent extension involved in gastrulation"
## "positive regulation of rRNA processing"
## "neural tube formation"
## "negative regulation of steroid biosynthetic process"
## "male sex differentiation"
## "unidimensional cell growth"
## "visceral motor neuron differentiation"
## "canonical Wnt signaling pathway involved in mesenchymal stem cell differentiation
## "canonical Wnt signaling pathway involved in osteoblast differentiation"
## "neurotransmitter loading into synaptic vesicle"
## "negative regulation of Rho-dependent protein serine/threonine kinase activity"
## "ADP metabolic process"

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##      "synaptic vesicle budding from endosome"
##      "negative regulation of NLRP3 inflammasome complex assembly"
##      "quinolinate catabolic process"
##      "regulation of acrosome reaction"
##      "collagen biosynthetic process"
##      "forebrain anterior/posterior pattern specification"
##      "positive regulation of embryonic development"
##      "negative regulation of necrotic cell death"
##      "positive regulation of neuromuscular junction development"
##      "response to kainic acid"
##      "omega-hydroxylase P450 pathway"
##      "lymphoid lineage cell migration into thymus"
##      "diaphragm contraction"
##      "response to cesium ion"
##      "mast cell secretory granule organization"
##      "trachea development"
##      "negative regulation of mitotic DNA damage checkpoint"
##      "positive regulation of early endosome to late endosome transport"
##      "response to iron(III) ion"
##      "negative regulation of nuclear-transcribed mRNA poly(A) tail shortening"
##      "positive regulation of p38MAPK cascade"
##      "negative regulation of CD4-positive, alpha-beta T cell proliferation"
##      "tryptophan transport"
##      "osteoclast fusion"
##      "epithelial cilium movement"
##      "oxidative DNA demethylation"
##      "mammary gland epithelial cell proliferation"
##      "habituation"
##      "cell morphogenesis involved in differentiation"
##      "sperm-egg recognition"
##      "transcription-dependent tethering of RNA polymerase II gene DNA at nuclear periph
##      "spongiotrophoblast differentiation"
##      "female meiosis sister chromatid cohesion"
##      "D-ribose catabolic process"
##      "lateral ganglionic eminence cell proliferation"
##      "lambdoid suture morphogenesis"
##      "sagittal suture morphogenesis"
##      "mammary gland specification"
##      "anterior semicircular canal development"
##      "lateral semicircular canal development"
##      "dentinogenesis"
##      "regulation of bone development"
##      "positive regulation of prostaglandin-E synthase activity"
##      "positive regulation of histone ubiquitination"
##      "positive regulation of glucose catabolic process to lactate via pyruvate"
##      "hyaluronan biosynthetic process"
##      "L-proline import across plasma membrane"
##      "L-tryptophan transmembrane transport"
##      "regulation of transcription from RNA polymerase II promoter involved in spinal co
##      "negative regulation of heart contraction"
##      "positive regulation of cell proliferation in bone marrow"
##      "positive regulation of mediator complex assembly"
##      "intrinsic apoptotic signaling pathway in response to DNA damage"
##      "response to methotrexate"

```

"negative regulation of lipoprotein lipase activity"
 ## "evoked neurotransmitter secretion"
 ## "natural killer cell tolerance induction"
 ## "mitral valve formation"
 ## "transforming growth factor beta receptor complex assembly"
 ## "regulation of proteasomal protein catabolic process"
 ## "positive regulation of reciprocal meiotic recombination"
 ## "metanephric mesenchymal cell migration"
 ## "cell migration involved in coronary angiogenesis"
 ## "metanephric glomerular mesangial cell proliferation involved in metanephros development"
 ## "pancreatic A cell development"
 ## "forebrain-midbrain boundary formation"
 ## "regulation of transcription from RNA polymerase II promoter involved in somatic morphogenesis"
 ## "central nervous system myelin maintenance"
 ## "autophagy of host cells involved in interaction with symbiont"
 ## "histone lysine demethylation"
 ## "synaptonemal complex organization"
 ## "modification of postsynaptic actin cytoskeleton"
 ## "establishment of melanosome localization"
 ## "suppression by virus of host autophagy"
 ## "peptide antigen transport"
 ## "regulation of cholesterol import"
 ## "myoblast differentiation involved in skeletal muscle regeneration"
 ## "meiotic chromosome condensation"
 ## "regulation of multivesicular body size involved in endosome transport"
 ## "regulation of transcription from RNA polymerase II promoter involved in ventral morphogenesis"
 ## "negative regulation of Kit signaling pathway"
 ## "response to metformin"
 ## "protein hydroxylation"
 ## "metanephric proximal tubule development"
 ## "metanephric distal tubule morphogenesis"
 ## "negative regulation of hepatic stellate cell activation"
 ## "organic cation transport"
 ## "5S class rRNA transcription by RNA polymerase III"
 ## "tRNA transcription by RNA polymerase III"
 ## "natural killer cell degranulation"
 ## "nuclear polyadenylation-dependent tRNA catabolic process"
 ## "cornea development in camera-type eye"
 ## "positive regulation of glutamate receptor signaling pathway"
 ## "tRNA transcription"
 ## "positive regulation of muscle atrophy"
 ## "negative regulation of toll-like receptor 5 signaling pathway"
 ## "regulation of vascular wound healing"
 ## "negative regulation of nucleotide-binding oligomerization domain containing 1 signaling pathway"
 ## "blood coagulation, common pathway"
 ## "tolerance induction to lipopolysaccharide"
 ## "establishment of protein localization to vacuole"
 ## "regulation of myoblast fusion"
 ## "negative regulation of myoblast proliferation"
 ## "glycolipid catabolic process"
 ## "positive regulation of photoreceptor cell differentiation"
 ## "visceral serous pericardium development"
 ## "hindgut development"
 ## "endoplasmic reticulum-plasma membrane tethering"

"methyl-branched fatty acid metabolic process"
 ## "neuron projection fasciculation"
 ## "negative regulation of intracellular transport of viral material"
 ## "regulation of non-motile cilium assembly"
 ## "positive regulation of Rho guanyl-nucleotide exchange factor activity"
 ## "positive regulation of T cell activation via T cell receptor contact with antigen"
 ## "regulation of Rab protein signal transduction"
 ## "negative regulation of calcium-independent cell-cell adhesion"
 ## "positive regulation of Wnt signaling pathway by BMP signaling pathway"
 ## "negative regulation of double-strand break repair via nonhomologous end joining"
 ## "tricuspid valve formation"
 ## "axon target recognition"
 ## "negative regulation of neuron projection regeneration"
 ## "synaptic vesicle clustering"
 ## "polyprenol biosynthetic process"
 ## "positive regulation of cardiac epithelial to mesenchymal transition"
 ## "regulation of the force of skeletal muscle contraction"
 ## "positive regulation of ryanodine-sensitive calcium-release channel activity"
 ## "maintenance of synapse structure"
 ## "cellular response to magnetism"
 ## "ornithine biosynthetic process"
 ## "floor plate formation"
 ## "response to stilbenoid"
 ## "endocardium formation"
 ## "regulation of chaperone-mediated protein folding"
 ## "hypotonic response"
 ## "negative regulation of epithelial cell migration"
 ## "central nervous system vasculogenesis"
 ## "regulation of JUN kinase activity"
 ## "Golgi vesicle prefusion complex stabilization"
 ## "lung goblet cell differentiation"
 ## "histone H3-R26 methylation"
 ## "negative regulation of interferon-gamma-mediated signaling pathway"
 ## "inactivation of paternal X chromosome"
 ## "negative regulation of extracellular matrix assembly"
 ## "melanosome organization"
 ## "cell-abiotic substrate adhesion"
 ## "cell-cell signaling involved in cardiac conduction"
 ## "positive regulation of protein localization to early endosome"
 ## "response to vitamin"
 ## "regulation of homophilic cell adhesion"
 ## "resolution of meiotic recombination intermediates"
 ## "positive regulation of nuclease activity"
 ## "negative regulation of secretion of lysosomal enzymes"
 ## "negative regulation of ruffle assembly"
 ## "regulation of nuclear receptor transcription coactivator activity"
 ## "phospholipid scrambling"
 ## "optic nerve structural organization"
 ## "receptor catabolic process"
 ## "negative regulation of complement activation, classical pathway"
 ## "regulation of AV node cell action potential"
 ## "planar cell polarity pathway involved in axon guidance"
 ## "negative regulation of CD40 signaling pathway"
 ## "ventral midline determination"

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## "smoothened signaling pathway involved in ventral spinal cord patterning"
## "negative regulation of hair follicle development"
## "detection of cell density by contact stimulus involved in contact inhibition"
## "meiotic attachment of telomere to nuclear envelope"
## "mesenchymal to epithelial transition involved in metanephric renal vesicle format
## "inhibition of cysteine-type endopeptidase activity"
## "regulation of heart morphogenesis"
## "positive regulation of tongue muscle cell differentiation"
## "response to pyrethroid"
## "error-free postreplication DNA repair"
## "regulation of myeloid cell apoptotic process"
## "nerve growth factor production"
## "regulation of synaptic membrane adhesion"
## "diacylglycerol catabolic process"
## "ubiquitin-dependent glycoprotein ERAD pathway"
## "positive regulation of T-helper 17 cell differentiation"
## "carbon dioxide transport"
## "positive regulation of chromatin assembly or disassembly"
## "hemangioblast cell differentiation"
## "regulation of mast cell differentiation"
## "regulation of mitotic cell cycle phase transition"
## "regulation of establishment of endothelial barrier"
## "positive regulation of anterograde synaptic vesicle transport"
## "cellular response to paclitaxel"
## "regulation of CD8-positive, alpha-beta T cell proliferation"
## "negative regulation of microtubule motor activity"
## "endonucleolytic cleavage in 5'-ETS of tricistronic rRNA transcript (SSU-rRNA, 5.8S
## "mitotic chromosome movement towards spindle pole"
## "positive regulation of CD4-positive, CD25-positive, alpha-beta regulatory T cell c
## "regulation of DNA stability"
## "positive regulation of phosphorylation of RNA polymerase II C-terminal domain"
## "negative regulation of translation in response to endoplasmic reticulum stress"
## "U2 snRNA 3'-end processing"
## "bronchus cartilage development"
## "lung smooth muscle development"
## "positive regulation of telomere maintenance via telomere lengthening"
## "regulation of growth rate"
## "syncytium formation"
## "mitotic cytokinesis checkpoint"
## "regulation of cholesterol efflux"
## "triglyceride-rich lipoprotein particle remodeling"
## "positive regulation of DNA strand elongation"
## "response to thyroxine"
## "negative regulation of hydrogen peroxide-induced neuron death"
## "regulation of DNA helicase activity"
## "positive regulation of DNA helicase activity"
## "negative regulation of osteoclast proliferation"
## "positive regulation of amyloid fibril formation"
## "serotonin secretion by platelet"
## "negative regulation of retinal ganglion cell axon guidance"
## "positive regulation of protein O-linked glycosylation"
## "regulation of translational fidelity"
## "regulation of ER to Golgi vesicle-mediated transport"
## "negative regulation of cell proliferation involved in heart valve morphogenesis"

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##      "regulation of nucleotide-excision repair"
##      "endodermal cell fate determination"
##      "fluorene metabolic process"
##      "glossopharyngeal nerve morphogenesis"
##      "regulation of chemokine production"
##      "interleukin-8 biosynthetic process"
##      "interleukin-17-mediated signaling pathway"
##      "cell proliferation involved in heart valve development"
##      "positive regulation of endocardial cushion to mesenchymal transition involved in l
##      "immune response to tumor cell"
##      "atrioventricular node development"
##      "osteoblast proliferation"
##      "visceral mesoderm-endoderm interaction involved in midgut development"
##      "regulation of vesicle targeting, to, from or within Golgi"
##      "positive regulation of TRAIL-activated apoptotic signaling pathway"
##      "cell-cell adhesion mediated by integrin"
##      "metanephric glomerular mesangial cell development"
##      "positive regulation of intracellular transport of viral material"
##      "positive regulation of vascular smooth muscle cell dedifferentiation"
##      "positive regulation of metanephric mesenchymal cell migration"
##      "sodium-dependent phosphate transport"
##      "deoxyribonucleoside monophosphate biosynthetic process"
##      "negative regulation of telomere maintenance in response to DNA damage"
##      "positive regulation of telomeric loop disassembly"
##      "mature B cell differentiation involved in immune response"
##      "positive regulation of T-helper 17 cell lineage commitment"
##      "cellular calcium ion homeostasis"
##      "substrate-dependent cell migration, cell attachment to substrate"
##      "regulation of glycoprotein biosynthetic process"
##      "peptidyl-proline hydroxylation to 3-hydroxy-L-proline"
##      "inositol phosphate metabolic process"
##      "positive regulation of interleukin-4 biosynthetic process"
##      "negative regulation of amyloid fibril formation"
##      "glutamine secretion"
##      "myotube differentiation involved in skeletal muscle regeneration"
##      "bile acid and bile salt transport"
##      "ornithine transport"
##      "trichloroethylene metabolic process"
##      "regulation of natural killer cell proliferation"
##      "Wnt receptor catabolic process"
##      "response to ammonium ion"
##      "distal tubule development"
##      "L-arginine transmembrane transport"
##      "L-glutamine import across plasma membrane"
##      "positive regulation of dopaminergic neuron differentiation"
##      "positive regulation of histone H3-K4 trimethylation"
##      "vasculogenesis involved in coronary vascular morphogenesis"
##      "adenosine to inosine editing"
##      "guanine metabolic process"
##      "dephosphorylation of RNA polymerase II C-terminal domain"
##      "positive regulation of DNA ligase activity"
##      "cellular response to heparin"
##      "protein K33-linked ubiquitination"
##      "neutrophil activation involved in immune response"

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## "glucosamine metabolic process"
## "central nervous system neuron differentiation"
## "regulation of intracellular transport"
## "ureteric bud formation"
## "response to Thyroglobulin triiodothyronine"
## "oculomotor nerve development"
## "trochlear nerve development"
## "positive regulation of mitotic cell cycle, embryonic"
## "negative regulation of stomach neuroendocrine cell differentiation"
## "renal interstitial fibroblast development"
## "negative regulation of pancreatic A cell differentiation"
## "regulation of branching involved in salivary gland morphogenesis by epithelial-me
## "regulation of glomerular mesangial cell proliferation"
## "positive regulation of calcium ion transmembrane transport via high voltage-gated
## "regulation of blood vessel branching"
## "embryonic lung development"
## "ciliary basal body organization"
## "regulation of mismatch repair"
## "regulation of DNA damage response, signal transduction by p53 class mediator"
## "positive regulation of pigment cell differentiation"
## "regulation of chondrocyte development"
## "cohesin loading"
## "L-lysine transmembrane transport"
## "response to reactive oxygen species"
## "lipid glycosylation"
## "zinc ion import across plasma membrane"
## "notochord regression"
## "demethylation"
## "tRNA (guanine-N7)-methylation"
## "positive regulation of T cell cytokine production"
## "cholesterol catabolic process"
## "IMP salvage"
## "regulation of interleukin-1 beta secretion"
## "negative regulation of chloride transport"
## "neural fold bending"
## "positive regulation of glycogen (starch) synthase activity"
## "carbohydrate transport"
## "chemokine production"
## "response to cisplatin"
## "regulation of flagellated sperm motility"
## "negative regulation of DNA-dependent DNA replication"
## "glutathione catabolic process"
## "umbilical cord morphogenesis"
## "antigen processing and presentation of exogenous peptide antigen via MHC class I"
## "somatotropin secreting cell differentiation"
## "embryonic camera-type eye formation"
## "regulation of vasculogenesis"
## "noradrenergic neuron differentiation"
## "negative regulation of binding"
## "positive regulation of fibroblast apoptotic process"
## "cellular response to interferon-alpha"
## "interleukin-4-mediated signaling pathway"
## "negative regulation of mast cell degranulation"
## "negative regulation of interferon-gamma secretion"

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## "negative regulation of cholesterol import"
## "positive regulation of fever generation by positive regulation of prostaglandin s
## "positive regulation of ERK1 and ERK2 cascade via TNFSF11-mediated signaling"
## "regulation of fibroblast apoptotic process"
## "meiotic spindle assembly checkpoint"
## "Fas signaling pathway"
## "protein localization to meiotic spindle midzone"
## "regulation of transcription from RNA polymerase II promoter in response to stress
## "enucleate erythrocyte development"
## "keratan sulfate metabolic process"
## "negative regulation of lymphocyte activation"
## "negative regulation of prolactin secretion"
## "mitochondrial L-ornithine transmembrane transport"
## "oligosaccharide biosynthetic process"
## "regulation of NIK/NF-kappaB signaling"
## "inner ear auditory receptor cell differentiation"
## "eye blink reflex"
## "regulation of mitotic spindle organization"
## "intestinal epithelial structure maintenance"
## "positive regulation of protein localization to basolateral plasma membrane"
## "dermatan sulfate proteoglycan biosynthetic process"
## "positive regulation of prostaglandin secretion involved in immune response"
## "positive regulation of myeloid leukocyte cytokine production involved in immune r
## "positive regulation of granulocyte chemotaxis"
## "regulation of proteinase activated receptor activity"
## "negative regulation of phospholipase C-activating G protein-coupled receptor signa
## "piRNA biosynthetic process"
## "regulation of neutrophil degranulation"
## "regulation of transcription by glucose"
## "sterol homeostasis"
## "negative regulation of protein acetylation"
## "cellular component assembly"
## "nerve growth factor processing"
## "histone H3-K4 acetylation"
## "negative regulation of ubiquitin-dependent protein catabolic process"
## "sphingosine biosynthetic process"
## "positive regulation of type 2 immune response"
## "negative regulation of heart induction by canonical Wnt signaling pathway"
## "phosphatidylserine biosynthetic process"
## "acyl carnitine transport"
## "Wnt signaling pathway involved in forebrain neuroblast division"
## "olfactory placode formation"
## "positive regulation of mesodermal cell fate specification"
## "endodermal digestive tract morphogenesis"
## "calcium ion transmembrane transport via low voltage-gated calcium channel"
## "positive regulation of canonical Wnt signaling pathway involved in controlling ty
## "peptidyl-L-cysteine S-palmitoylation"
## "regulation of opioid receptor signaling pathway"
## "opsonization"
## "negative regulation of kinase activity"
## "cellular response to high light intensity"
## "retinal rod cell apoptotic process"
## "positive regulation of miRNA metabolic process"
## "fever generation"

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##      "regulation of sister chromatid cohesion"
##      "response to fructose"
##      "positive regulation of epithelial cell migration"
##      "ammonium transport"
##      "elastin metabolic process"
##      "cerebral cortex tangential migration"
##      "regulation of ion transmembrane transporter activity"
##      "activation of NF-kappaB-inducing kinase activity"
##      "compartment pattern specification"
##      "hair cell differentiation"
##      "chemorepulsion involved in postnatal olfactory bulb interneuron migration"
##      "endoderm formation"
##      "embryonic viscerocranium morphogenesis"
##      "positive regulation of interferon-gamma-mediated signaling pathway"
##      "negative regulation of cell-cell adhesion mediated by cadherin"
##      "biphenyl metabolic process"
##      "specification of axis polarity"
##      "positive regulation of testosterone secretion"
##      "renal sodium ion transport"
##      "small GTPase mediated signal transduction"
##      "regulation of sodium:proton antiporter activity"
##      "glutathione transport"
##      "cellular response to gonadotropin-releasing hormone"
##      "renal phosphate ion absorption"
##      "negative regulation of cyclin-dependent protein kinase activity"
##      "negative regulation of cGMP-mediated signaling"
##      "positive regulation of sequestering of triglyceride"
##      "tissue morphogenesis"
##      "negative regulation of activation-induced cell death of T cells"
##      "modification of dendritic spine"
##      "cytidine deamination"
##      "cellular response to zinc ion"
##      "histone H3-K27 demethylation"
##      "mechanosensory behavior"
##      "anatomical structure morphogenesis"
##      "regulation of dendritic cell cytokine production"
##      "positive regulation of type III interferon production"
##      "bone growth"
##      "positive regulation of protein import into mitochondrial outer membrane"
##      "negative regulation of chaperone-mediated protein folding"
##      "negative regulation of cytokinesis"
##      "positive regulation of establishment of T cell polarity"
##      "photoreactive repair"
##      "regulation of sodium-dependent phosphate transport"
##      "ganglioside catabolic process"
##      "response to human chorionic gonadotropin"
##      "cellular response to thyroxine stimulus"
##      "regulation of behavioral fear response"
##      "very long-chain fatty acid metabolic process"
##      "apoptotic nuclear changes"
##      "coronary vasculature morphogenesis"
##      "regulation of blood volume by renal aldosterone"
##      "female somatic sex determination"
##      "regulation of intracellular protein transport"

```


"granulosa cell differentiation"
 ## "negative regulation of leukocyte adhesion to arterial endothelial cell"
 ## "mesenchymal cell differentiation involved in kidney development"
 ## "exonucleolytic trimming to generate mature 3'-end of 5.8S rRNA from tricistronic"
 ## "alpha-tubulin acetylation"
 ## "sensory system development"
 ## "positive regulation of tolerance induction to tumor cell"
 ## "regulation of synaptic growth at neuromuscular junction"
 ## "fatty acid omega-oxidation"
 ## "forebrain cell migration"
 ## "regulation of intracellular cholesterol transport"
 ## "positive regulation of MDA-5 signaling pathway"
 ## "negative regulation of tumor necrosis factor superfamily cytokine production"
 ## "regulation of activated CD4-positive, alpha-beta T cell apoptotic process"
 ## "positive regulation of activated CD8-positive, alpha-beta T cell apoptotic process"
 ## "inositol phosphate biosynthetic process"
 ## "negative regulation of intrinsic apoptotic signaling pathway in response to DNA damage"
 ## "pulmonary myocardium development"
 ## "marginal zone B cell differentiation"
 ## "positive regulation of dendritic cell cytokine production"
 ## "detection of muramyl dipeptide"
 ## "interleukin-4 production"
 ## "positive regulation of gamma-delta T cell activation"
 ## "macrophage homeostasis"
 ## "regulation of neurotransmitter receptor activity"
 ## "N-acetylneuraminate metabolic process"
 ## "regulation of skeletal muscle contraction by regulation of release of sequestered calcium"
 ## "positive regulation of interleukin-15 production"
 ## "TIRAP-dependent toll-like receptor 4 signaling pathway"
 ## "bundle of His cell action potential"
 ## "glycosylceramide catabolic process"
 ## "regulation of postsynapse organization"
 ## "negative regulation of leukocyte apoptotic process"
 ## "protein localization to ciliary transition zone"
 ## "facial nerve morphogenesis"
 ## "smooth muscle cell chemotaxis"
 ## "polysaccharide assembly with MHC class II protein complex"
 ## "termination of RNA polymerase III transcription"
 ## "proline transport"
 ## "aromatic compound catabolic process"
 ## "melanosome localization"
 ## "tRNA 3'-trailer cleavage"
 ## "regulation of eIF2 alpha phosphorylation by amino acid starvation"
 ## "positive regulation of translational initiation in response to starvation"
 ## "endoplasmic reticulum tubular network organization"
 ## "short-term synaptic potentiation"
 ## "regulation of cell fate commitment"
 ## "positive regulation of nuclear receptor transcription coactivator activity"
 ## "B-1 B cell differentiation"
 ## "cellular response to macrophage colony-stimulating factor stimulus"
 ## "negative regulation of interferon-alpha production"
 ## "cell migration involved in endocardial cushion formation"
 ## "regulation of Rap protein signal transduction"
 ## "regulation of interleukin-5 production"

"positive regulation of tissue remodeling"
 ## "negative regulation of lipid metabolic process"
 ## "cellular response to luteinizing hormone stimulus"
 ## "negative regulation of receptor localization to synapse"
 ## "negative regulation of anterograde synaptic vesicle transport"
 ## "astrocyte activation involved in immune response"
 ## "oligodendrocyte cell fate specification"
 ## "vascular wound healing"
 ## "negative regulation of centriole elongation"
 ## "morphogenesis of a branching structure"
 ## "skeletal myofibril assembly"
 ## "phagolysosome assembly involved in apoptotic cell clearance"
 ## "negative regulation of hepatocyte apoptotic process"
 ## "cardiac muscle cell action potential"
 ## "regulation of defense response to bacterium"
 ## "negative regulation of embryonic development"
 ## "L-histidine transmembrane transport"
 ## "negative regulation of synaptic vesicle exocytosis"
 ## "immunoglobulin transcytosis in epithelial cells mediated by polymeric immunoglobulin"
 ## "cell migration involved in vasculogenesis"
 ## "positive regulation of B cell differentiation"
 ## "mitochondrial large ribosomal subunit assembly"
 ## "cellular response to sodium arsenite"
 ## "histone H2A-K13 ubiquitination"
 ## "histone H2A-K15 ubiquitination"
 ## "renal tubule morphogenesis"
 ## "regulation of transcription from RNA polymerase II promoter in response to arsenite"
 ## "positive regulation of proteasomal ubiquitin-dependent protein catabolic process"
 ## "negative regulation of extracellular matrix disassembly"
 ## "mesonephric duct development"
 ## "isopentenyl diphosphate biosynthetic process"
 ## "dimethylallyl diphosphate biosynthetic process"
 ## "dichotomous subdivision of terminal units involved in mammary gland duct morphogenesis"
 ## "cellular response to leptomycin B"
 ## "negative regulation of T cell differentiation in thymus"
 ## "histone H4-K20 methylation"
 ## "low-density lipoprotein particle receptor catabolic process"
 ## "muscle organ morphogenesis"
 ## "urothelial cell proliferation"
 ## "positive regulation of urothelial cell proliferation"
 ## "bronchiole morphogenesis"
 ## "mesenchymal-epithelial cell signaling involved in lung development"
 ## "semicircular canal fusion"
 ## "lung proximal/distal axis specification"
 ## "memory T cell proliferation"
 ## "positive regulation of hair follicle cell proliferation"
 ## "positive regulation of type B pancreatic cell apoptotic process"
 ## "negative regulation of asymmetric cell division"
 ## "pre-B cell differentiation"
 ## "alveolar secondary septum development"
 ## "AV node cell action potential"
 ## "respiratory basal cell differentiation"
 ## "ureteric bud morphogenesis"
 ## "regulation of bile acid metabolic process"

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##      "regulation of semaphorin-plexin signaling pathway"
##      "oligosaccharide-lipid intermediate biosynthetic process"
##      "multicellular organismal iron ion homeostasis"
##      "error-free translesion synthesis"
##      "melanocyte proliferation"
##      "positive regulation of ERAD pathway"
##      "Tie signaling pathway"
##      "positive regulation of memory T cell differentiation"
##      "basement membrane organization"
##      "positive regulation of triglyceride catabolic process"
##      "regulation of protein sumoylation"
##      "glomerular mesangial cell proliferation"
##      "positive regulation of glomerular metanephric mesangial cell proliferation"
##      "cellular response to interleukin-8"
##      "embryonic limb morphogenesis"
##      "meiotic sister chromatid cohesion, centromeric"
##      "nuclear-transcribed mRNA catabolic process, 3'-5' exonucleolytic nonsense-mediated decay"
##      "innate vocalization behavior"
##      "tRNA catabolic process"
##      "negative regulation of cell migration involved in sprouting angiogenesis"
##      "negative regulation of forebrain neuron differentiation"
##      "aorta smooth muscle tissue morphogenesis"
##      "positive regulation of DNA damage checkpoint"
##      "positive regulation of skeletal muscle cell differentiation"
##      "Purkinje myocyte development"
##      "negative regulation of peptidase activity"
##      "positive regulation of histone phosphorylation"
##      "regulation of water loss via skin"
##      "inactivation of X chromosome by heterochromatin assembly"
##      "inactivation of X chromosome by DNA methylation"
##      "heterochromatin organization involved in chromatin silencing"
##      "cell-cell signaling involved in mammary gland development"
##      "positive regulation of white fat cell proliferation"
##      "regulation of nucleus size"
##      "determination of left/right asymmetry in lateral mesoderm"
##      "synaptic transmission, cholinergic"
##      "tongue morphogenesis"
##      "heparan sulfate proteoglycan catabolic process"
##      "telomere maintenance in response to DNA damage"
##      "glomerular visceral epithelial cell development"
##      "negative regulation of methylation-dependent chromatin silencing"
##      "primary palate development"
##      "iron ion transport"
##      "positive regulation of polarized epithelial cell differentiation"
##      "cloaca development"
##      "pronephric nephron tubule morphogenesis"
##      "pronephric duct morphogenesis"
##      "Kupffer's vesicle development"
##      "negative regulation of photoreceptor cell differentiation"
##      "sphingosine metabolic process"
##      "negative regulation of lipid storage"
##      "positive regulation of cGMP-mediated signaling"
##      "cellular response to cocaine"
##      "trans-synaptic signaling by neuropeptide, modulating synaptic transmission"

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## "spinal cord motor neuron cell fate specification"
## "autocrine signaling"
## "sequestering of TGFbeta in extracellular matrix"
## "polar body extrusion after meiotic divisions"
## "atrioventricular node cell development"
## "formin-nucleated actin cable assembly"
## "eukaryotic translation initiation factor 2 complex assembly"
## "negative regulation of neutrophil differentiation"
## "mitotic telomere maintenance via semi-conservative replication"
## "dsRNA transport"
## "pigment granule aggregation in cell center"
## "mesenchymal cell proliferation involved in ureteric bud development"
## "DNA strand resection involved in replication fork processing"
## "positive regulation of anterograde dense core granule transport"
## "vascular endothelial growth factor production"
## "hypermethylation of CpG island"
## "embryonic hindgut morphogenesis"
## "intestinal epithelial cell development"
## "glomerular endothelium development"
## "negative regulation of oxidative stress-induced neuron death"
## "negative regulation of cytolysis by symbiont of host cells"
## "cytolysis in other organism involved in symbiotic interaction"
## "negative regulation of motor neuron apoptotic process"
## "regulation of transcription involved in G2/M transition of mitotic cell cycle"
## "tRNA exon ligation utilizing 2',3' cyclic phosphate of 5'-exon as source of linka
## "keratinocyte activation"
## "protein transport into plasma membrane raft"
## "trophectodermal cell differentiation"
## "neuronal-glial interaction involved in cerebral cortex radial glia guided migrati
## "development of primary sexual characteristics"
## "regulation of neuronal action potential"
## "presynaptic dense core vesicle exocytosis"
## "fibroblast growth factor receptor signaling pathway involved in negative regulati
## "fibroblast growth factor receptor signaling pathway involved in hemopoiesis"
## "fibroblast growth factor receptor signaling pathway involved in positive regulati
## "lateral sprouting from an epithelium"
## "siRNA loading onto RISC involved in RNA interference"
## "sensory perception of touch"
## "glycogen cell differentiation involved in embryonic placenta development"
## "guanylate kinase-associated protein clustering"
## "negative regulation of protein kinase activity by protein phosphorylation"
## "enzyme-directed rRNA 2'-O-methylation"
## "RNA localization"
## "fusion of sperm to egg plasma membrane involved in single fertilization"
## "cellular response to brain-derived neurotrophic factor stimulus"
## "DNA double-strand break processing involved in repair via single-strand annealing
## "dopamine catabolic process"
## "post-embryonic eye morphogenesis"
## "membrane raft polarization"
## "cell-cell adhesion involved in neuronal-glial interactions involved in cerebral c
## "interleukin-5-mediated signaling pathway"
## "regulation of ventricular cardiac muscle cell membrane repolarization"
## "humoral immune response"
## "nucleotide-binding oligomerization domain containing signaling pathway"

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## "Golgi to plasma membrane CFTR protein transport"
## "regulation of response to reactive oxygen species"
## "positive regulation of opsonization"
## "regulation of telomere maintenance via telomere lengthening"
## "meiotic cell cycle checkpoint"
## "leukemia inhibitory factor signaling pathway"
## "hemolysis by symbiont of host erythrocytes"
## "optic placode formation involved in camera-type eye formation"
## "peptide antigen assembly with MHC class II protein complex"
## "leukocyte differentiation"
## "cyanate catabolic process"
## "trimming of terminal mannose on C branch"
## "centrosome separation"
## "negative regulation of dense core granule biogenesis"
## "negative regulation of mesenchymal stem cell differentiation"
## "negative regulation of amniotic stem cell differentiation"
## "specification of animal organ position"
## "regulated exocytosis"
## "entry of symbiont into host cell by promotion of host phagocytosis"
## "regulation of cilium beat frequency involved in ciliary motility"
## "kidney morphogenesis"
## "regulation of T cell antigen processing and presentation"
## "cotranslational protein targeting to membrane"
## "embryonic axis specification"
## "positive regulation of protein tyrosine kinase activity"
## "platelet-derived growth factor receptor-alpha signaling pathway"
## "ureter development"
## "negative regulation of endoplasmic reticulum stress-induced neuron intrinsic apoptosis"
## "negative regulation of cellular response to transforming growth factor beta stimulus"
## "regulation of mesenchymal stem cell differentiation"
## "sperm axoneme assembly"
## "mesodermal cell migration"
## "pallium development"
## "positive regulation of protein complex assembly"
## "cell migration involved in mesendoderm migration"
## "regulation of calcium ion transmembrane transport via high voltage-gated calcium channel"
## "regulation of muscle filament sliding"
## "cellular polysaccharide biosynthetic process"
## "temperature homeostasis"
## "tRNA N2-guanine methylation"
## "negative regulation of apoptotic process"
## "regulation of filopodium assembly"
## "metanephric mesenchymal cell proliferation involved in metanephros development"
## "cellular response to cold"
## "astrocyte fate commitment"
## "positive regulation of oxidative stress-induced neuron intrinsic apoptotic signaling"
## "negative regulation of eye photoreceptor cell development"
## "retinal cone cell apoptotic process"
## "negative regulation of alpha-beta T cell differentiation"
## "negative regulation of telomeric DNA binding"
## "cellular response to vitamin"
## "protein sialylation"
## "negative regulation of histone H3-K9 acetylation"
## "auditory receptor cell fate determination"

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## "positive regulation of protein complex disassembly"
## "antigen processing and presentation, endogenous lipid antigen via MHC class Ib"
## "apoptotic process involved in luteolysis"
## "adenylate cyclase-activating adrenergic receptor signaling pathway involved in po
## "negative regulation of double-strand break repair via single-strand annealing"
## "protein-containing complex localization"
## "canonical Wnt signaling pathway involved in cardiac muscle cell fate commitment"
## "response to hydroxyurea"
## "response to actinomycin D"
## "response to dithiothreitol"
## "response to anisomycin"
## "regulation of postsynaptic membrane neurotransmitter receptor levels"
## "very-low-density lipoprotein particle remodeling"
## "peptidyl-aspartic acid hydroxylation"
## "peptidyl-lysine hydroxylation to 5-hydroxy-L-lysine"
## "regulation of sister chromatid segregation"
## "histone H3-R2 demethylation"
## "histone H4-R3 demethylation"
## "transmembrane receptor protein tyrosine phosphatase signaling pathway"
## "release from viral latency"
## "MDA-5 signaling pathway"
## "oncogene-induced cell senescence"
## "ribonucleotide metabolic process"
## "telomere maintenance via telomere lengthening"
## "locomotion"
## "fatty acid homeostasis"
## "positive regulation of tumor necrosis factor secretion"
## "double-strand break repair involved in meiotic recombination"
## "cellular aromatic compound metabolic process"
## "detection of molecule of bacterial origin"
## "intermediate filament polymerization or depolymerization"
## "cardiac muscle cell myoblast differentiation"
## "response to sodium arsenite"
## "protein localization to juxtaparanode region of axon"
## "extrinsic apoptotic signaling pathway in absence of ligand"
## "atrial septum secundum morphogenesis"
## "apical constriction"
## "homiothermy"
## "positive regulation of delayed rectifier potassium channel activity"
## "negative regulation of spontaneous neurotransmitter secretion"
## "positive regulation of 1-phosphatidylinositol 4-kinase activity"
## "positive regulation of respiratory burst"
## "dUMP biosynthetic process"
## "tumor necrosis factor-mediated signaling pathway"
## "polyadenylation-dependent snoRNA 3'-end processing"
## "negative regulation of CD8-positive, alpha-beta T cell activation"
## "negative regulation of negative chemotaxis"
## "negative regulation of pro-B cell differentiation"
## "positive regulation of antigen receptor-mediated signaling pathway"
## "regulation of angiotensin levels in blood"
## "opsin transport"
## "proximal tubule development"
## "membrane depolarization during bundle of His cell action potential"
## "cardiac cell fate determination"

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##      "respiratory burst involved in defense response"
##      "dGTP catabolic process"
##      "interleukin-17 secretion"
##      "medium-chain fatty acid transport"
##      "regulation of organelle organization"
##      "T cell homeostasis"
##      "regulation of inner ear auditory receptor cell differentiation"
##      "cytosol to ER transport"
##      "maintenance of presynaptic active zone structure"
##      "leukocyte activation involved in immune response"
##      "antigen processing and presentation of peptide or polysaccharide antigen via MHC"
##      "phosphatidylserine acyl-chain remodeling"
##      "negative regulation of cell adhesion involved in substrate-bound cell migration"
##      "positive regulation of erythrocyte aggregation"
##      "CD4-positive, alpha-beta T cell differentiation"
##      "negative regulation of histone deacetylation"
##      "musculoskeletal movement"
##      "spermatogonial cell division"
##      "positive regulation of skeletal muscle fiber development"
##      "modification by host of symbiont morphology or physiology via secreted substance"
##      "interaction with symbiont via secreted substance involved in symbiotic interaction"
##      "cell-cell signaling via exosome"
##      "positive regulation of receptor binding"
##      "regulation of transcription elongation from RNA polymerase II promoter"
##      "positive regulation of synaptic growth at neuromuscular junction"
##      "negative regulation of mitochondrial calcium ion concentration"
##      "negative regulation of voltage-gated potassium channel activity"
##      "peptidyl-threonine phosphorylation"
##      "sebaceous gland cell differentiation"
##      "autophagy of peroxisome"
##      "lipid modification"
##      "negative regulation of glucocorticoid biosynthetic process"
##      "positive regulation of striated muscle contraction"
##      "negative regulation of DNA recombination at telomere"
##      "response to prolactin"
##      "adherens junction maintenance"
##      "natural killer cell chemotaxis"
##      "positive regulation of interleukin-1 beta biosynthetic process"
##      "positive regulation of high-density lipoprotein particle assembly"
##      "positive regulation of secretion of lysosomal enzymes"
##      "regulation of T cell receptor signaling pathway"
##      "negative regulation of mesenchymal cell apoptotic process"
##      "loop of Henle development"
##      "myeloid cell differentiation"
##      "cytokine secretion involved in immune response"
##      "riboptosome assembly involved in necroptotic process"
##      "nucleotide-binding oligomerization domain containing 2 signaling pathway"
##      "protein transport along microtubule"
##      "inactivation of MAPK activity involved in osmosensory signaling pathway"
##      "morphogenesis of an epithelial sheet"
##      "smoothened signaling pathway involved in regulation of secondary heart field card
##      "establishment of viral latency"
##      "floor plate development"
##      "regulation of MyD88-independent toll-like receptor signaling pathway"

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## "positive regulation of interleukin-8 biosynthetic process"
## "prostate gland stromal morphogenesis"
## "regulation of smoothened signaling pathway involved in dorsal/ventral neural tube
## "regulation of heart rate"
## "prechordal plate formation"
## "midbrain-hindbrain boundary initiation"
## "negative regulation of apoptotic process involved in outflow tract morphogenesis"
## "blood coagulation, intrinsic pathway"
## "viral translation"
## "induction by virus of host autophagy"
## "negative regulation of striated muscle cell differentiation"
## "fasciculation of motor neuron axon"
## "negative regulation of interferon-alpha biosynthetic process"
## "positive regulation of DNA demethylation"
## "positive regulation of hh target transcription factor activity"
## "membrane depolarization during atrial cardiac muscle cell action potential"
## "regulation of protein localization to cell surface"
## "regulation of intestinal cholesterol absorption"
## "inner ear receptor cell development"
## "podosome assembly"
## "guanosine metabolic process"
## "cell surface bile acid receptor signaling pathway"
## "dGTP metabolic process"
## "purine deoxyribonucleoside metabolic process"
## "negative regulation of endothelial cell chemotaxis"
## "ovarian follicle rupture"
## "synaptic vesicle priming"
## "regulation of cellular protein localization"
## "organelle localization"
## "regulation of synaptic activity"
## "organelle assembly"
## "positive regulation of receptor localization to synapse"
## "positive regulation of regulated secretory pathway"
## "cytokine production involved in immune response"
## "smooth muscle cell migration"
## "putrescine biosynthetic process from ornithine"
## "regulation of autophagosome size"
## "cellular cation homeostasis"
## "extracellular exosome biogenesis"
## "polyamine transmembrane transport"
## "peptidyl-aspartic acid autophosphorylation"
## "somatic diversification of immune receptors via somatic mutation"
## "negative regulation of RNA interference"
## "positive regulation of hair follicle development"
## "muscle tissue morphogenesis"
## "terminal button organization"
## "positive regulation of chemokine (C-X-C motif) ligand 2 production"
## "rRNA export from nucleus"
## "positive regulation of digestive system process"
## "negative regulation of DNA-templated transcription, initiation"
## "cerebellar granular layer structural organization"
## "negative regulation of interleukin-1 production"
## "protein localization to endosome"
## "positive regulation of interleukin-2 biosynthetic process"

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## "membrane repolarization during atrial cardiac muscle cell action potential"
## "negative regulation of histone deacetylase activity"
## "regulation of cell maturation"
## "plasma cell differentiation"
## "COP9 signalosome assembly"
## "luteinizing hormone secretion"
## "retrograde trans-synaptic signaling by trans-synaptic protein complex"
## "cellular response to vasopressin"
## "O-glycan processing, core 1"
## "negative regulation of cellular respiration"
## "establishment or maintenance of epithelial cell apical/basal polarity"
## "actin filament bundle assembly"
## "negative regulation of phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase act."
## "actin filament-based movement"
## "acetate ester transport"
## "kidney epithelium development"
## "folic acid transport"
## "regulation of actin phosphorylation"
## "pharynx development"
## "box H/ACA snoRNA metabolic process"
## "canonical Wnt signaling pathway involved in neural crest cell differentiation"
## "striated muscle cell development"
## "negative regulation of mature B cell apoptotic process"
## "DNA replication preinitiation complex assembly"
## "negative regulation of protein tyrosine phosphatase activity"
## "N-terminal protein myristoylation"
## "epithelial cell differentiation involved in mammary gland alveolus development"
## "activation of meiosis"
## "positive regulation of mesenchymal cell apoptotic process"
## "swimming behavior"
## "co-translational protein modification"
## "membrane depolarization during AV node cell action potential"
## "positive regulation of isotype switching"
## "positive regulation of voltage-gated calcium channel activity"
## "positive regulation of endoplasmic reticulum unfolded protein response"
## "nicotinamide riboside catabolic process"
## "ear morphogenesis"
## "stem cell development"
## "regulation of Fc receptor mediated stimulatory signaling pathway"
## "arterial endothelial cell differentiation"
## "regulation of glycolytic process by positive regulation of transcription from RNA"
## "regulation of cellular ketone metabolic process by positive regulation of transcr"
## "retina layer formation"
## "regulation of hormone biosynthetic process"
## "positive regulation of collateral sprouting in absence of injury"
## "regulation of striated muscle cell differentiation"
## "negative regulation of SMAD protein complex assembly"
## "reproductive structure development"
## "regulation of astrocyte differentiation"
## "protein tetramerization"
## "negative regulation of reactive oxygen species biosynthetic process"
## "glutamine catabolic process"
## "G0 to G1 transition"
## "positive regulation of protein catabolic process in the vacuole"

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## "negative regulation of lymphocyte migration"
## "response to bile acid"
## "protein import into nucleus, translocation"
## "negative regulation of bile acid biosynthetic process"
## "abscission"
## "fatty acid elongation, saturated fatty acid"
## "superior olivary nucleus maturation"
## "regulation of muscle filament sliding speed"
## "fatty acid elongation, monounsaturated fatty acid"
## "fatty acid elongation, polyunsaturated fatty acid"
## "ventricular compact myocardium morphogenesis"
## "regulation of viral transcription"
## "regulation of production of siRNA involved in RNA interference"
## "regulation of production of miRNAs involved in gene silencing by miRNA"
## "ubiquitin recycling"
## "interferon-gamma production"
## "cellular response to peptidoglycan"
## "cellular response to reactive nitrogen species"
## "manganese ion transport"
## "positive regulation of cell-substrate adhesion"
## "regulation of postsynaptic cytosolic calcium ion concentration"
## "negative regulation of telomere maintenance via telomere lengthening"
## "regulation of DNA-templated transcription, elongation"
## "regulation of protein phosphorylation"
## "negative regulation of nitric oxide mediated signal transduction"
## "growth hormone secretion"
## "positive regulation of non-motile cilium assembly"
## "immunoglobulin production involved in immunoglobulin mediated immune response"
## "zonula adherens maintenance"
## "negative regulation of glomerular mesangial cell proliferation"
## "interleukin-6 biosynthetic process"
## "response to environmental enrichment"
## "desensitization of G protein-coupled receptor signaling pathway"
## "gastric inhibitory peptide signaling pathway"
## "lipxygenase pathway"
## "positive regulation of exit from mitosis"
## "negative regulation of chondrocyte development"
## "positive regulation of Notch signaling pathway involved in heart induction"
## "positive regulation of metanephric ureteric bud development"
## "metanephros morphogenesis"
## "positive regulation of microglial cell activation"
## "visceral muscle development"
## "negative regulation of natural killer cell activation"
## "positive regulation of interleukin-10 biosynthetic process"
## "nuclear pore complex assembly"
## "positive regulation of stem cell population maintenance"
## "endochondral bone growth"
## "positive regulation of ion transmembrane transport"
## "epithelial-mesenchymal signaling involved in prostate gland development"
## "negative regulation of tubulin deacetylation"
## "limb morphogenesis"
## "epinephrine secretion"
## "T cell mediated cytotoxicity"
## "store-operated calcium entry"

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##      "interleukin-2 biosynthetic process"
##      "intestinal cholesterol absorption"
##      "vesicle targeting, trans-Golgi to periciliary membrane compartment"
##      "regulation of NMDA receptor activity"
##      "glomerular filtration"
##      "nuclear histone mRNA catabolic process"
##      "oncostatin-M-mediated signaling pathway"
##      "forebrain neuroblast division"
##      "response to nitrosative stress"
##      "positive regulation of cardiac neural crest cell migration involved in outflow tract morphogenesis"
##      "glomerulus development"
##      "positive regulation of vascular wound healing"
##      "glycerophospholipid biosynthetic process"
##      "trabecular meshwork development"
##      "deltoid tuberosity development"
##      "modulation by host of viral RNA genome replication"
##      "transcriptional start site selection at RNA polymerase II promoter"
##      "thyroid hormone mediated signaling pathway"
##      "reproductive process"
##      "protein localization to nucleus"
##      "cellular response to dopamine"
##      "RNA polymerase II core complex assembly"
##      "cellular response to laminar fluid shear stress"
##      "positive regulation of G2/M1 transition of meiotic cell cycle"
##      "midbrain-hindbrain boundary morphogenesis"
##      "positive regulation of epinephrine secretion"
##      "phosphatidylinositol dephosphorylation"
##      "neuron projection maintenance"
##      "exocyst assembly"
##      "interleukin-6 production"
##      "embryonic nail plate morphogenesis"
##      "tear secretion"
##      "positive regulation of ureteric bud formation"
##      "germ-line stem cell population maintenance"
##      "leading strand elongation"
##      "DNA-templated transcription, elongation"
##      "deoxyribonucleotide catabolic process"
##      "positive regulation of ubiquitin-dependent endocytosis"
##      "receptor guanylyl cyclase signaling pathway"
##      "DNA cytosine deamination"
##      "protein kinase D signaling"
##      "response to thyroid hormone"
##      "positive regulation of protein kinase D signaling"
##      "cell projection organization"
##      "equilibrioception"
##      "ganglion development"
##      "ventral midline development"
##      "negative regulation of protein localization to lysosome"
##      "positive regulation of amyloid precursor protein catabolic process"
##      "regulation of rRNA processing"
##      "endocardial cushion development"
##      "base conversion or substitution editing"
##      "regulation of myosin II filament organization"
##      "regulation of type B pancreatic cell proliferation"

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## "positive regulation of artery morphogenesis"
## "coronary vein morphogenesis"
## "regulation of heart growth"
## "negative regulation of regulatory T cell differentiation"
## "positive regulation of keratinocyte differentiation"
## "PMA-inducible membrane protein ectodomain proteolysis"
## "negative regulation of neurogenesis"
## "intracellular protein transmembrane transport"
## "regulation of cGMP-mediated signaling"
## "regulation of inositol trisphosphate biosynthetic process"
## "'de novo' cotranslational protein folding"
## "mesenchymal cell development"
## "meiotic DNA integrity checkpoint"
## "platelet aggregation"
## "protein localization to cytosolic proteasome complex involved in ERAD pathway"
## "vesicle fusion with endoplasmic reticulum-Golgi intermediate compartment (ERGIC)"
## "negative regulation of Wnt signaling pathway involved in heart development"
## "oligodendrocyte development"
## "negative regulation of receptor binding"
## "protein oxidation"
## "response to stimulus"
## "venous blood vessel development"
## "regulation of cellular response to drug"
## "cervix development"
## "histone H3-K36 methylation"
## "translesion synthesis"
## "positive regulation of cellular protein catabolic process"
## "isopentenyl diphosphate biosynthetic process, mevalonate pathway"
## "positive regulation of chemokine (C-X-C motif) ligand 1 production"
## "type IV hypersensitivity"
## "pro-T cell differentiation"
## "SRP-dependent cotranslational protein targeting to membrane, translocation"
## "parathyroid hormone secretion"
## "low-density lipoprotein particle receptor biosynthetic process"
## "regulation of cholesterol transporter activity"
## "regulation of histone H3-K27 methylation"
## "negative regulation of blood vessel endothelial cell differentiation"
## "negative regulation of pancreatic stellate cell proliferation"
## "negative regulation of cell proliferation involved in mesonephros development"
## "regulation of cellular response to X-ray"
## "negative regulation of fibroblast growth factor receptor signaling pathway involved in"
## "negative regulation of glial cell-derived neurotrophic factor receptor signaling pathway"
## "metencephalon development"
## "tube development"
## "viral mRNA export from host cell nucleus"
## "regulation of protein monoubiquitination"
## "epithelial cell proliferation involved in lung morphogenesis"
## "negative regulation of thyroid hormone receptor activity"
## "hyaluronan metabolic process"
## "chromosome organization involved in meiotic cell cycle"
## "regulation of axon guidance"
## "peptidyl-glutamine methylation"
## "CD4-positive, alpha-beta T cell cytokine production"
## "negative regulation of complement activation"

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##      "rRNA (guanine-N7)-methylation"
##      "positive regulation of CD4-positive, alpha-beta T cell activation"
##      "cellular response to fluoride"
##      "nuclear-transcribed mRNA catabolic process, deadenylation-dependent decay"
##      "mammary duct terminal end bud growth"
##      "positive regulation of homophilic cell adhesion"
##      "translational attenuation"
##      "neuromuscular process"
##      "leukotriene biosynthetic process"
##      "tRNA wobble base 5-methoxycarbonylmethyl-2-thiouridinylation"
##      "regulation of nitric oxide mediated signal transduction"
##      "zymogen activation"
##      "spliceosomal complex disassembly"
##      "BMP signaling pathway involved in heart induction"
##      "response to UV-C"
##      "cerebral cortex GABAergic interneuron development"
##      "trans-synaptic signaling by BDNF, modulating synaptic transmission"
##      "detection of chemical stimulus involved in sensory perception of smell"
##      "CAMKK-AMPK signaling cascade"
##      "regulation of cytokine production involved in inflammatory response"
##      "regulation of immunoglobulin production"
##      "lymphatic endothelial cell differentiation"
##      "positive regulation of connective tissue growth factor production"
##      "positive regulation of mast cell chemotaxis"
##      "negative regulation of protein localization to chromosome, telomeric region"
##      "penetration of zona pellucida"
##      "striated muscle atrophy"
##      "mesenchymal cell proliferation involved in lung development"
##      "thorax and anterior abdomen determination"
##      "morphogenesis of a polarized epithelium"
##      "toll-like receptor 7 signaling pathway"
##      "myoblast development"
##      "fructose 2,6-bisphosphate metabolic process"
##      "histone H3-S28 phosphorylation"
##      "acetaldehyde metabolic process"
##      "negative regulation of transforming growth factor beta receptor signaling pathway"
##      "cGMP metabolic process"
##      "positive regulation of neuron projection arborization"
##      "protein linear deubiquitination"
##      "regulation of glial cell differentiation"
##      "actin crosslink formation"
##      "gamma-aminobutyric acid secretion, neurotransmission"
##      "glutamate secretion, neurotransmission"
##      "observational learning"
##      "atrial cardiac muscle tissue morphogenesis"
##      "positive regulation of chronic inflammatory response to non-antigenic stimulus"
##      "regulation of natural killer cell mediated immunity"
##      "positive regulation of TRAIL production"
##      "CD8-positive, alpha-beta T cell activation"
##      "peptidyl-serine dephosphorylation"
##      "enzyme linked receptor protein signaling pathway"
##      "suppression by virus of host type I interferon-mediated signaling pathway"
##      "suppression by virus of host STAT1 activity"
##      "suppression by virus of host STAT2 activity"

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##      "Golgi to plasma membrane protein transport"
##      "atrial septum morphogenesis"
##      "transmission of nerve impulse"
##      "directional locomotion"
##      "adult heart development"
##      "ventricular system development"
##      "lymphotoxin A biosynthetic process"
##      "G protein-coupled receptor signaling pathway involved in heart process"
##      "formation of cytoplasmic translation initiation complex"
##      "growth factor dependent regulation of skeletal muscle satellite cell proliferation"
##      "positive regulation of cell fate specification"
##      "negative regulation of gastrin-induced gastric acid secretion"
##      "subpallium development"
##      "positive regulation of high voltage-gated calcium channel activity"
##      "positive regulation of anoikis"
##      "cardiac right ventricle formation"
##      "toll-like receptor 4 signaling pathway"
##      "epithelial-mesenchymal cell signaling"
##      "regulation of intracellular steroid hormone receptor signaling pathway"
##      "negative regulation of excitatory postsynaptic potential"
##      "detection of biotic stimulus"
##      "negative regulation of inner ear auditory receptor cell differentiation"
##      "negative regulation of adenylate cyclase-inhibiting adrenergic receptor signaling"
##      "response to arachidonic acid"
##      "retinoid metabolic process"
##      "regulation of toll-like receptor 4 signaling pathway"
##      "plasma membrane raft assembly"
##      "UDP-glucosylation"
##      "positive regulation of cell junction assembly"
##      "negative regulation of very-low-density lipoprotein particle clearance"
##      "midbrain dopaminergic neuron differentiation"
##      "carnitine transport"
##      "L-methionine salvage from S-adenosylmethionine"
##      "negative regulation of lipoprotein metabolic process"
##      "negative regulation of glucagon secretion"
##      "regulation of response to oxidative stress"
##      "peripheral T cell tolerance induction"
##      "central tolerance induction to self antigen"
##      "negative regulation of glycogen catabolic process"
##      "alpha-beta T cell activation"
##      "negative regulation of intrinsic apoptotic signaling pathway in response to osmot."
##      "regulation of thymocyte migration"
##      "negative regulation of phospholipase activity"
##      "rRNA pseudouridine synthesis"
##      "snRNA pseudouridine synthesis"
##      "positive regulation of cytokine activity"
##      "basal dendrite development"
##      "VEGF-activated neuropilin signaling pathway involved in axon guidance"
##      "protein localization to early endosome"
##      "regulation of dendritic spine maintenance"
##      "negative regulation of dendritic spine maintenance"
##      "otic placode development"
##      "negative regulation of dendritic cell antigen processing and presentation"
##      "phenol-containing compound metabolic process"

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## "negative regulation of coagulation"
## "regulation of voltage-gated sodium channel activity"
## "neural fold elevation formation"
## "ammon gyrus development"
## "regulation of neuron migration"
## "response to interleukin-12"
## "lactose biosynthetic process"
## "response to rotenone"
## "protein localization to cell periphery"
## "positive regulation of aminoacyl-tRNA ligase activity"
## "inactivation of MAPKK activity"
## "positive regulation of locomotion involved in locomotory behavior"
## "neurotransmitter receptor transport, endosome to plasma membrane"
## "glomerular basement membrane development"
## "plasma lipoprotein particle clearance"
## "reverse cholesterol transport"
## "negative regulation of NMDA glutamate receptor activity"
## "positive regulation of mesenchymal cell proliferation involved in ureter development"
## "regulation of chromatin silencing at telomere"
## "vascular smooth muscle cell differentiation"
## "negative regulation of T cell activation"
## "mitotic DNA replication preinitiation complex assembly"
## "cellular response to molecule of bacterial origin"
## "carbohydrate catabolic process"
## "positive regulation of reactive oxygen species biosynthetic process"
## "negative regulation of alpha-beta T cell activation"
## "protein deubiquitination involved in ubiquitin-dependent protein catabolic process"
## "response to insulin-like growth factor stimulus"
## "negative regulation of cell growth involved in cardiac muscle cell development"
## "mineralocorticoid biosynthetic process"
## "uterus morphogenesis"
## "cellular ion homeostasis"
## "cellular response to sucrose stimulus"
## "ribosome-associated ubiquitin-dependent protein catabolic process"
## "regulation of cell fate specification"
## "regulation of cell activation"
## "eye photoreceptor cell differentiation"
## "post-embryonic forelimb morphogenesis"
## "negative regulation of telomeric RNA transcription from RNA pol II promoter"
## "positive regulation of telomeric RNA transcription from RNA pol II promoter"
## "negative regulation of insulin-like growth factor receptor signaling pathway"
## "regulation of T cell apoptotic process"
## "negative regulation of cell aging"
## "negative regulation of mammary gland epithelial cell proliferation"
## "positive regulation of protein transport"
## "convergent extension"
## "soft palate development"
## "meiotic spindle organization"
## "regulation of smooth muscle cell migration"
## "suppression by virus of host cysteine-type endopeptidase activity involved in apoptosis"
## "myotome development"
## "Purkinje myocyte to ventricular cardiac muscle cell signaling"
## "positive regulation of synaptic transmission, dopaminergic"
## "common myeloid progenitor cell proliferation"

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##      "hippocampus development"
##      "neurotransmitter receptor transport"
##      "lymph vessel development"
##      "regulation of phosphorylation"
##      "positive regulation of glucose transmembrane transport"
##      "aflatoxin catabolic process"
##      "epithelial to mesenchymal transition involved in cardiac fibroblast development"
##      "cellular response to salt stress"
##      "positive regulation of glutathione biosynthetic process"
##      "stem cell differentiation"
##      "regulation of platelet activation"
##      "negative regulation of DNA binding"
##      "protein localization to membrane raft"
##      "glucocorticoid receptor signaling pathway"
##      "maintenance of protein location"
##      "regulation of T cell homeostatic proliferation"
##      "positive regulation of retinoic acid receptor signaling pathway"
##      "regulation of Fas signaling pathway"
##      "initiation of primordial ovarian follicle growth"
##      "deadenylation-independent decapping of nuclear-transcribed mRNA"
##      "calcium-dependent activation of synaptic vesicle fusion"
##      "negative regulation of cellular protein localization"
##      "nephron development"
##      "proteoglycan metabolic process"
##      "negative regulation of mitophagy"
##      "NADPH oxidation"
##      "mitotic spindle elongation"
##      "histone H3-K14 acetylation"
##      "metanephric mesenchyme development"
##      "establishment of epithelial cell polarity"
##      "negative regulation of metalloendopeptidase activity involved in amyloid precursor"
##      "IRES-dependent translational initiation of linear mRNA"
##      "negative regulation of relaxation of cardiac muscle"
##      "positive regulation of cell proliferation involved in heart morphogenesis"
##      "corticospinal tract morphogenesis"
##      "inductive cell-cell signaling"
##      "vitamin K metabolic process"
##      "muscle fiber development"
##      "negative regulation of adenylate cyclase-activating adrenergic receptor signaling"
##      "associative learning"
##      "positive regulation of stress-activated MAPK cascade"
##      "exogenous drug catabolic process"
##      "negative regulation of immunological synapse formation"
##      "sensory perception of light stimulus"
##      "negative regulation of nitric-oxide synthase biosynthetic process"
##      "nephric duct formation"
##      "positive regulation of fibroblast growth factor production"
##      "negative regulation of chemokine (C-X-C motif) ligand 2 production"
##      "pathogenesis"
##      "proprioception"
##      "cardiolipin metabolic process"
##      "post-translational protein acetylation"
##      "astrocyte activation"
##      "regulation of spindle assembly"

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## "post-embryonic hemopoiesis"
## "interleukin-3-mediated signaling pathway"
## "positive regulation of histone H3-K36 trimethylation"
## "cis assembly of pre-catalytic spliceosome"
## "NK T cell differentiation"
## "lung development"
## "spindle pole body duplication"
## "bone mineralization involved in bone maturation"
## "positive regulation of heart growth"
## "mitotic spindle pole body duplication"
## "myotube cell development"
## "negative regulation of RNA polymerase II transcriptional preinitiation complex as"
## "cellular response to leucine"
## "positive regulation of protein localization to cilium"
## "positive regulation of endothelial cell differentiation"
## "positive regulation of DNA ligation"
## "regulation of vesicle-mediated transport"
## "D-aspartate import across plasma membrane"
## "L-glutamate import across plasma membrane"
## "positive regulation of protein ubiquitination"
## "maturation of LSU-rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU"
## "low-density lipoprotein particle mediated signaling"
## "regulation of vascular endothelial growth factor production"
## "interleukin-15-mediated signaling pathway"
## "amyloid-beta clearance"
## "tooth mineralization"
## "cardiac muscle thin filament assembly"
## "negative regulation of mitochondrion organization"
## "telomeric 3' overhang formation"
## "positive regulation of lipid transport"
## "nucleobase-containing small molecule catabolic process"
## "cellular stress response to acid chemical"
## "cap-independent translational initiation"
## "negative regulation of translation in response to stress"
## "establishment of mitotic sister chromatid cohesion"
## "protein localization to T-tubule"
## "atrial cardiac muscle cell to AV node cell communication"
## "SA node cell to atrial cardiac muscle cell communication"
## "positive regulation of calcium ion transmembrane transporter activity"
## "neurofilament bundle assembly"
## "negative regulation of JAK-STAT cascade"
## "mesenchyme development"
## "metanephric S-shaped body morphogenesis"
## "oocyte growth"
## "regulation of cytokine secretion"
## "AMP biosynthetic process"
## "cytokine biosynthetic process"
## "'de novo' AMP biosynthetic process"
## "paraxial mesodermal cell fate commitment"
## "endocardial cushion cell fate commitment"
## "cellular response to cisplatin"
## "positive regulation of determination of dorsal identity"
## "glycosphingolipid metabolic process"
## "androgen biosynthetic process"

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##      "thrombopoietin-mediated signaling pathway"
##      "reticulophagy"
##      "negative regulation of telomere maintenance via semi-conservative replication"
##      "negative regulation of exonuclease activity"
##      "negative regulation of telomeric D-loop disassembly"
##      "regulation of terminal button organization"
##      "positive regulation of cytoskeleton organization"
##      "intrinsic apoptotic signaling pathway in response to nitrosative stress"
##      "cardiac chamber development"
##      "modulation by virus of host morphology or physiology"
##      "ghrelin secretion"
##      "regulation of hindgut contraction"
##      "negative regulation of low-density lipoprotein particle receptor biosynthetic process"
##      "response to monosodium glutamate"
##      "actin cortical patch assembly"
##      "actin cortical patch localization"
##      "anterograde dendritic transport of neurotransmitter receptor complex"
##      "regulation of viral budding via host ESCRT complex"
##      "tooth eruption"
##      "genitalia development"
##      "modulation by symbiont of host I-kappaB kinase/NF-kappaB cascade"
##      "postsynaptic density assembly"
##      "negative regulation of cell cycle G2/M phase transition"
##      "cytidine to uridine editing"
##      "fatty acid oxidation"
##      "endoplasmic reticulum membrane organization"
##      "establishment of cell polarity"
##      "postsynaptic modulation of chemical synaptic transmission"
##      "positive regulation of organelle assembly"
##      "positive regulation of phosphorylation of RNA polymerase II C-terminal domain serine"
##      "meiotic chromosome segregation"
##      "positive regulation of transcription by glucose"
##      "L-methionine salvage from methylthioadenosine"
##      "regulation of SNARE complex assembly"
##      "cardiac neural crest cell development involved in outflow tract morphogenesis"
##      "regulation of glucose import in response to insulin stimulus"
##      "post-embryonic camera-type eye development"
##      "hard palate development"
##      "regulation of timing of neuron differentiation"
##      "abducens nerve formation"
##      "T-helper cell differentiation"
##      "response to sorbitol"
##      "microtubule cytoskeleton organization involved in mitosis"
##      "regulation of protein ADP-ribosylation"
##      "memory T cell differentiation"
##      "regulation of transcription involved in anterior/posterior axis specification"
##      "positive regulation of transcription from RNA polymerase II promoter in response to stimulus"
##      "membrane tubulation"
##      "positive regulation of histamine secretion by mast cell"
##      "positive regulation of spontaneous neurotransmitter secretion"
##      "negative regulation of macropinocytosis"
##      "positive regulation of mismatch repair"
##      "regulation of synaptic vesicle endocytosis"
##      "negative regulation of determination of dorsal identity"

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## "regulation of transcription from RNA polymerase II promoter in response to hypoxi
## "positive regulation of thyroid hormone generation"
## "regulation of adenylate cyclase activity involved in G protein-coupled receptor s
## "regulation of ubiquitin-protein transferase activity"
## "corticotropin secretion"
## "negative regulation of proteolysis involved in cellular protein catabolic process
## "mesangial cell-matrix adhesion"
## "negative regulation of glucose import"
## "tissue remodeling"
## "intralumenal vesicle formation"
## "regulation of signal transduction involved in mitotic G2 DNA damage checkpoint"
## "regulation of chromatin silencing at rDNA"
## "positive regulation of myeloid dendritic cell chemotaxis"
## "negative regulation of dendritic cell dendrite assembly"
## "positive regulation of osteoclast proliferation"
## "regulation of angiotensin-activated signaling pathway"
## "positive regulation of mast cell cytokine production"
## "DNA methylation on cytosine"
## "ionotropic glutamate receptor signaling pathway"
## "positive regulation of clathrin coat assembly"
## "leukocyte migration involved in immune response"
## "innate immune response-activating signal transduction"
## "cerebellar cortex morphogenesis"
## "leukocyte degranulation"
## "respiratory burst after phagocytosis"
## "interferon-alpha production"
## "aldosterone biosynthetic process"
## "cortisol biosynthetic process"
## "zinc ion transmembrane transport"
## "negative regulation of eosinophil extravasation"
## "ER overload response"
## "regulation of skeletal muscle contraction"
## "DNA geometric change"
## "hematopoietic stem cell differentiation"
## "negative regulation of mesodermal cell fate specification"
## "viral entry into host cell"
## "regulation of sprouting angiogenesis"
## "positive regulation of translational initiation by iron"
## "regulation of female receptivity"
## "regulation of cellular process"
## "olfactory behavior"
## "positive regulation of dermatome development"
## "regulation of establishment of planar polarity involved in neural tube closure"
## "regulation of cargo loading into COPII-coated vesicle"
## "flavonoid metabolic process"
## "vestibulocochlear nerve structural organization"
## "response to glucocorticoid"
## "metanephric collecting duct development"
## "sensory neuron axon guidance"
## "regulation of histone H3-K9 trimethylation"
## "negative regulation of glycine import across plasma membrane"
## "dorsal root ganglion morphogenesis"
## "RNA polyadenylation"
## "establishment of synaptic specificity at neuromuscular junction"

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## "catecholamine secretion"
## "regulation of type B pancreatic cell development"
## "establishment of planar polarity"
## "embryonic genitalia morphogenesis"
## "regulation of chromatin silencing"
## "negative regulation of bicellular tight junction assembly"
## "formation of primary germ layer"
## "negative regulation of epidermal growth factor-activated receptor activity"
## "male germ-line stem cell asymmetric division"
## "negative regulation of macrophage activation"
## "endothelial tube lumen extension"
## "positive regulation of endosome organization"
## "corticotropin hormone secreting cell differentiation"
## "vitamin D3 metabolic process"
## "positive regulation of calcineurin-NFAT signaling cascade"
## "negative regulation of monocyte chemotactic protein-1 production"
## "positive regulation of mitotic cell cycle DNA replication"
## "positive regulation of parathyroid hormone secretion"
## "regulation of extrinsic apoptotic signaling pathway in absence of ligand"
## "facial nerve structural organization"
## "eosinophil differentiation"
## "collateral sprouting"
## "positive regulation of glomerular mesangial cell proliferation"
## "negative regulation of branching involved in ureteric bud morphogenesis"
## "striatal medium spiny neuron differentiation"
## "regulation of kinase activity"
## "neutrophil extravasation"
## "negative regulation of bone mineralization involved in bone maturation"
## "axon choice point recognition"
## "positive regulation of stem cell differentiation"
## "mesenchymal to epithelial transition"
## "protein K27-linked ubiquitination"
## "polysaccharide metabolic process"
## "neural plate morphogenesis"
## "sodium ion import across plasma membrane"
## "detection of fungus"
## "positive regulation of catecholamine secretion"
## "external genitalia morphogenesis"
## "nuclear matrix anchoring at nuclear membrane"
## "positive regulation of Schwann cell proliferation"
## "TORC1 signaling"
## "positive regulation of myeloid cell differentiation"
## "inner ear receptor cell differentiation"
## "epithelial cell proliferation involved in salivary gland morphogenesis"
## "inositol metabolic process"
## "hormone secretion"
## "sclerotome development"
## "response to pain"
## "regulation of atrial cardiac muscle cell membrane repolarization"
## "negative regulation of T cell activation via T cell receptor contact with antigen"
## "positive regulation of neuron apoptotic process"
## "meiotic DNA double-strand break processing"
## "regulation of viral entry into host cell"
## "negative regulation of cellular response to growth factor stimulus"

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## "neurotransmitter receptor transport to postsynaptic membrane"
## "negative regulation of glucosylceramide biosynthetic process"
## "response to camptothecin"
## "negative regulation of peptidyl-cysteine S-nitrosylation"
## "positive regulation of mitochondrial transcription"
## "regulation of translation in response to stress"
## "positive regulation of STAT cascade"
## "urogenital system development"
## "muscle contraction"
## "U1 snRNA 3'-end processing"
## "U5 snRNA 3'-end processing"
## "cardiac vascular smooth muscle cell development"
## "endosomal transport"
## "bone trabecula formation"
## "cellular response to bacterial lipopeptide"
## "response to manganese-induced endoplasmic reticulum stress"
## "base-excision repair, base-free sugar-phosphate removal"
## "positive regulation of cholesterol transport"
## "protection from natural killer cell mediated cytotoxicity"
## "peptidyl-proline hydroxylation"
## "RNA polymerase II preinitiation complex assembly"
## "luteinizing hormone signaling pathway"
## "negative regulation of B cell activation"
## "epidermis development"
## "peptide biosynthetic process"
## "gephyrin clustering involved in postsynaptic density assembly"
## "detection of mechanical stimulus involved in sensory perception of sound"
## "otic vesicle morphogenesis"
## "double-strand break repair via synthesis-dependent strand annealing"
## "glomerulus vasculature development"
## "regulation of DNA-dependent DNA replication"
## "positive regulation of myosin-light-chain-phosphatase activity"
## "myelination"
## "presynaptic membrane assembly"
## "ESCRT III complex disassembly"
## "cytoplasmic translational initiation"
## "centrosome-templated microtubule nucleation"
## "secretion by lung epithelial cell involved in lung growth"
## "cellular response to testosterone stimulus"
## "nephric duct morphogenesis"
## "positive regulation of CD8-positive, alpha-beta cytotoxic T cell extravasation"
## "early endosome to Golgi transport"
## "type B pancreatic cell proliferation"
## "regulation of low-density lipoprotein particle receptor catabolic process"
## "muscle cell development"
## "regulation of dosage compensation by inactivation of X chromosome"
## "DNA replication-dependent nucleosome assembly"
## "negative regulation of phosphatidylinositol biosynthetic process"
## "small-subunit processome assembly"
## "actin filament reorganization"
## "gastrin-induced gastric acid secretion"
## "calcium ion transmembrane transport via high voltage-gated calcium channel"
## "positive regulation of fatty acid metabolic process"
## "axial mesoderm formation"

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##      "notochord cell development"
##      "pericyte cell differentiation"
##      "positive regulation of cholesterol metabolic process"
##      "pulmonary valve morphogenesis"
##      "regulation of the force of heart contraction by chemical signal"
##      "snRNA metabolic process"
##      "snRNA modification"
##      "somatotropin secreting cell development"
##      "pancreas morphogenesis"
##      "negative regulation of peroxisome proliferator activated receptor signaling pathway"
##      "female meiosis chromosome separation"
##      "regulation of systemic arterial blood pressure by renin-angiotensin"
##      "leukotriene metabolic process"
##      "positive regulation of Schwann cell differentiation"
##      "sensory processing"
##      "bud outgrowth involved in lung branching"
##      "endothelial cell chemotaxis to vascular endothelial growth factor"
##      "stress-induced premature senescence"
##      "positive regulation of synaptic vesicle recycling"
##      "protein secretion"
##      "regulation of macrophage chemotaxis"
##      "rRNA metabolic process"
##      "negative regulation of proteasomal ubiquitin-dependent protein catabolic process"
##      "positive regulation of strand invasion"
##      "cerebellar Purkinje cell layer structural organization"
##      "oocyte development"
##      "cornified envelope assembly"
##      "regulation of axon diameter"
##      "regulation of type III interferon production"
##      "cytoplasmic pattern recognition receptor signaling pathway in response to virus"
##      "postsynaptic intermediate filament cytoskeleton organization"
##      "ATP hydrolysis coupled anion transmembrane transport"
##      "regulation of hydrogen peroxide metabolic process"
##      "primary sex determination"
##      "response to gonadotropin-releasing hormone"
##      "positive regulation of membrane tubulation"
##      "circadian sleep/wake cycle, non-REM sleep"
##      "forebrain morphogenesis"
##      "chondroitin sulfate proteoglycan biosynthetic process"
##      "prostate gland morphogenesis"
##      "negative regulation of glucose import in response to insulin stimulus"
##      "immunoglobulin biosynthetic process"
##      "negative regulation of epithelial to mesenchymal transition"
##      "female genitalia development"
##      "death-inducing signaling complex assembly"
##      "negative regulation of fibroblast growth factor production"
##      "regulation of secondary heart field cardioblast proliferation"
##      "NAD biosynthesis via nicotinamide riboside salvage pathway"
##      "regulation of cytokine-mediated signaling pathway"
##      "cartilage development involved in endochondral bone morphogenesis"
##      "thymus epithelium morphogenesis"
##      "sodium ion transmembrane transport"
##      "metanephric ascending thin limb development"
##      "negative regulation of protein ADP-ribosylation"

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## "negative regulation of hippo signaling"
## "monocyte activation"
## "cholesterol storage"
## "negative regulation of cardiac muscle tissue development"
## "basal protein localization"
## "SNARE complex assembly"
## "regulation of voltage-gated calcium channel activity"
## "cleavage in ITS2 between 5.8S rRNA and LSU-rRNA of tricistronic rRNA transcript (S"
## "response to dietary excess"
## "tRNA wobble position uridine thiolation"
## "axoneme assembly"
## "cartilage morphogenesis"
## "negative regulation of locomotion involved in locomotory behavior"
## "phospholipid transport"
## "N-terminal peptidyl-glycine N-myristoylation"
## "gonadotrophin-releasing hormone neuronal migration to the hypothalamus"
## "ubiquitin-dependent protein catabolic process via the N-end rule pathway"
## "facioacoustic ganglion development"
## "cell projection morphogenesis"
## "negative regulation of vascular endothelial cell proliferation"
## "DNA replication proofreading"
## "regulation of intrinsic apoptotic signaling pathway in response to DNA damage by p"
## "DNA replication-independent nucleosome organization"
## "regulation of monocyte differentiation"
## "positive regulation of striated muscle cell differentiation"
## "mesonephric tubule development"
## "positive regulation of oxidative stress-induced neuron death"
## "regulation of estradiol secretion"
## "synaptic transmission, glutamatergic"
## "primitive erythrocyte differentiation"
## "negative regulation of cell differentiation involved in embryonic placenta develop"
## "response to gonadotropin"
## "antigen processing and presentation, exogenous lipid antigen via MHC class Ib"
## "S-adenosylmethionine metabolic process"
## "mammary gland duct morphogenesis"
## "positive regulation of hormone biosynthetic process"
## "isopeptide cross-linking via N6-(L-isoglutamyl)-L-lysine"
## "positive regulation of fatty acid oxidation"
## "glucocorticoid mediated signaling pathway"
## "artery vasodilation involved in baroreceptor response to increased systemic arter"
## "antigen processing and presentation of endogenous peptide antigen via MHC class I"
## "ventral spinal cord interneuron differentiation"
## "negative regulation of neurological system process"
## "negative regulation of aldosterone biosynthetic process"
## "regulation of microvillus assembly"
## "negative regulation of cortisol biosynthetic process"
## "cell activation"
## "maturation of 5.8S rRNA"
## "induction of bacterial agglutination"
## "left/right pattern formation"
## "microtubule anchoring at microtubule organizing center"
## "behavioral response to nicotine"
## "positive regulation of phospholipid scramblase activity"
## "positive regulation of glucosylceramide catabolic process"

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## "positive regulation of sphingomyelin catabolic process"
## "phospholipase C-activating G protein-coupled glutamate receptor signaling pathway"
## "regulation of neurological system process"
## "positive regulation of superoxide anion generation"
## "embryonic skeletal limb joint morphogenesis"
## "regulation of corticotropin-releasing hormone secretion"
## "anatomical structure regression"
## "ureteric bud invasion"
## "negative regulation of satellite cell differentiation"
## "chromatin silencing at telomere"
## "regulation of interleukin-2 biosynthetic process"
## "ciliary neurotrophic factor-mediated signaling pathway"
## "replication fork reversal"
## "fibroblast growth factor receptor signaling pathway involved in mammary gland spe"
## "mammary gland bud formation"
## "branch elongation involved in salivary gland morphogenesis"
## "mesenchymal cell differentiation involved in lung development"
## "positive regulation of monocyte aggregation"
## "negative regulation of thymidylate synthase biosynthetic process"
## "positive regulation of maintenance of mitotic sister chromatid cohesion"
## "zinc ion homeostasis"
## "inflammatory cell apoptotic process"
## "hexose transmembrane transport"
## "protein localization to tricellular tight junction"
## "release of sequestered calcium ion into cytosol by endoplasmic reticulum"
## "positive regulation of glucocorticoid receptor signaling pathway"
## "smoothened signaling pathway involved in regulation of cerebellar granule cell pr"
## "meiotic DNA repair synthesis involved in reciprocal meiotic recombination"
## "protein farnesylation"
## "homologous chromosome orientation involved in meiotic metaphase I plate congressi"
## "DNA synthesis involved in double-strand break repair via homologous recombination"
## "positive regulation of natural killer cell mediated immunity"
## "protein heterotetramerization"
## "regulation of translational initiation by eIF2 alpha phosphorylation"
## "methylglyoxal catabolic process to D-lactate via S-lactoyl-glutathione"
## "mesenchymal to epithelial transition involved in metanephros morphogenesis"
## "regulation of chondrocyte differentiation"
## "nuclear polyadenylation-dependent mRNA catabolic process"
## "cold acclimation"
## "spontaneous neurotransmitter secretion"
## "nuclear inner membrane organization"
## "regulation of kinetochore assembly"
## "negative regulation of skeletal muscle satellite cell proliferation"
## "positive regulation of membrane protein ectodomain proteolysis"
## "regulation of calcium ion transport into cytosol"
## "telencephalon regionalization"
## "positive regulation of protein deacetylation"
## "positive regulation of histone H3-K9 trimethylation"
## "negative regulation of mRNA catabolic process"
## "negative regulation of transcription from RNA polymerase II promoter by histone m"
## "cardiac vascular smooth muscle cell differentiation"
## "negative regulation of aspartic-type endopeptidase activity involved in amyloid p"
## "positive regulation of protein deubiquitination"
## "peptidyl-tyrosine dephosphorylation involved in inactivation of protein kinase ac

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"protein polyglutamylation"
 ## "cochlear nucleus development"
 ## "arterial endothelial cell fate commitment"
 ## "blood vessel endothelial cell fate specification"
 ## "positive regulation of ERBB signaling pathway"
 ## "positive regulation of ephrin receptor signaling pathway"
 ## "positive regulation of canonical Wnt signaling pathway involved in cardiac muscle"
 ## "protein localization to pericentriolar material"
 ## "vesicle targeting"
 ## "protein localization to lysosome"
 ## "endothelial cell apoptotic process"
 ## "cAMP catabolic process"
 ## "norepinephrine biosynthetic process"
 ## "basal dendrite arborization"
 ## "endocardium morphogenesis"
 ## "negative regulation of G2/M transition of mitotic cell cycle"
 ## "epithelial cilium movement involved in determination of left/right asymmetry"
 ## "fast, calcium ion-dependent exocytosis of neurotransmitter"
 ## "negative regulation of tumor necrosis factor-mediated signaling pathway"
 ## "I-kappaB kinase/NF-kappaB signaling"
 ## "branchiomotor neuron axon guidance"
 ## "regulation of phosphorylation of RNA polymerase II C-terminal domain"
 ## "negative regulation of interferon-beta production"
 ## "regulation of excretion"
 ## "positive regulation of cysteine-type endopeptidase activity involved in apoptotic process"
 ## "regulation of intracellular calcium activated chloride channel activity"
 ## "cytoplasm organization"
 ## "lymphatic endothelial cell migration"
 ## "endothelial tip cell fate specification"
 ## "exocyst localization"
 ## "regulation of protein heterodimerization activity"
 ## "ventricular cardiac muscle cell action potential"
 ## "negative regulation of amyloid-beta formation"
 ## "regulation of Notch signaling pathway"
 ## "negative regulation of smoothened signaling pathway involved in ventral spinal cord development"
 ## "negative regulation of chemokine production"
 ## "response to DDT"
 ## "cellular response to pyrimidine ribonucleotide"
 ## "histone H3-S10 phosphorylation involved in chromosome condensation"
 ## "regulation of tumor necrosis factor biosynthetic process"
 ## "nose development"
 ## "anastral spindle assembly"
 ## "cellular response to epidermal growth factor stimulus"
 ## "cellular response to mycophenolic acid"
 ## "positive regulation of protein localization to spindle pole body"
 ## "positive regulation of mitotic spindle elongation"
 ## "positive regulation of chromosome separation"
 ## "intermediate filament bundle assembly"
 ## "DNA replication, removal of RNA primer"
 ## "regulation of mitotic cytokinesis"
 ## "regulation of secretion"
 ## "trachea cartilage morphogenesis"
 ## "embryonic epithelial tube formation"
 ## "peptidyl-methionine modification"

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##      "iron ion homeostasis"
##      "glycophagy"
##      "metanephric glomerular capillary formation"
##      "multi-ciliated epithelial cell differentiation"
##      "icosanoid metabolic process"
##      "negative regulation of Rho protein signal transduction"
##      "regulation of meiotic nuclear division"
##      "regulation of peptidyl-tyrosine phosphorylation"
##      "neuron death"
##      "positive regulation of cell communication by electrical coupling"
##      "maintenance of protein location in plasma membrane"
##      "positive regulation of membrane depolarization during cardiac muscle cell action p
##      "regulation of calcium ion transmembrane transporter activity"
##      "regulation of Wnt signaling pathway, planar cell polarity pathway"
##      "pericentric heterochromatin assembly"
##      "positive regulation of gluconeogenesis"
##      "NMDA glutamate receptor clustering"
##      "histone H3-K27 trimethylation"
##      "positive regulation of dopamine secretion"
##      "enamel mineralization"
##      "positive regulation of cellular response to macrophage colony-stimulating factor s
##      "positive regulation of platelet activation"
##      "regulation of lamellipodium morphogenesis"
##      "negative regulation of intracellular steroid hormone receptor signaling pathway"
##      "regulation of epidermal growth factor receptor signaling pathway"
##      "positive regulation of chemokine (C-C motif) ligand 2 secretion"
##      "renal system development"
##      "negative regulation of myosin-light-chain-phosphatase activity"
##      "motor neuron apoptotic process"
##      "regulation of transcription from RNA polymerase II promoter involved in myocardia
##      "positive regulation of ARF protein signal transduction"
##      "dendritic cell cytokine production"
##      "positive regulation of metanephric mesenchymal cell migration by platelet-derived
##      "mast cell proliferation"
##      "melanocyte adhesion"
##      "positive regulation of pyloric antrum smooth muscle contraction"
##      "positive regulation of colon smooth muscle contraction"
##      "regulation of growth hormone secretion"
##      "intraciliary anterograde transport"
##      "positive regulation by host of symbiont catalytic activity"
##      "epidermis morphogenesis"
##      "deadenylation-dependent decapping of nuclear-transcribed mRNA"
##      "regulation of mRNA stability involved in response to stress"
##      "sterol biosynthetic process"
##      "pallium cell proliferation in forebrain"
##      "post-anal tail morphogenesis"
##      "negative regulation of secretion"
##      "positive regulation of DNA metabolic process"
##      "positive regulation of DNA-directed DNA polymerase activity"
##      "peptide cross-linking via chondroitin 4-sulfate glycosaminoglycan"
##      "positive regulation of protein modification process"
##      "ectodermal cell fate commitment"
##      "regulation of tyrosine phosphorylation of STAT protein"
##      "CD4-positive or CD8-positive, alpha-beta T cell lineage commitment"

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"negative regulation of centriole-centriole cohesion"
 ## "SA node cell action potential"
 ## "antigen receptor-mediated signaling pathway"
 ## "glial cell fate commitment"
 ## "positive regulation of transcription from RNA polymerase II promoter in response"
 ## "telomere maintenance via base-excision repair"
 ## "regulation of mitochondrial membrane permeability involved in apoptotic process"
 ## "apoptotic chromosome condensation"
 ## "endoplasmic reticulum membrane fusion"
 ## "peptidyl-glutamic acid carboxylation"
 ## "regulation of signal transduction"
 ## "positive regulation of calcium-dependent cell-cell adhesion"
 ## "histone demethylation"
 ## "muscle filament sliding"
 ## "chromatin silencing at centromere"
 ## "interleukin-12 production"
 ## "organelle fusion"
 ## "vagina development"
 ## "vesicle scission"
 ## "female meiosis I"
 ## "thyroid-stimulating hormone-secreting cell differentiation"
 ## "retrograde axonal protein transport"
 ## "error-prone translesion synthesis"
 ## "salivary gland cavitation"
 ## "chondrocyte development involved in endochondral bone morphogenesis"
 ## "mesodermal cell fate determination"
 ## "ventral trunk neural crest cell migration"
 ## "sympathetic neuron projection extension"
 ## "sympathetic neuron projection guidance"
 ## "negative regulation of interleukin-6 secretion"
 ## "semaphorin-plexin signaling pathway involved in neuron projection guidance"
 ## "cell-cell signaling involved in cell-cell junction organization"
 ## "cellular response to bleomycin"
 ## "histamine metabolic process"
 ## "surfactant homeostasis"
 ## "embryonic organ morphogenesis"
 ## "natural killer cell activation involved in immune response"
 ## "mast cell cytokine production"
 ## "Arp2/3 complex-mediated actin nucleation"
 ## "protein localization to plasma membrane raft"
 ## "regulation of membrane depolarization during cardiac muscle cell action potential"
 ## "neurotransmitter transport"
 ## "midbrain morphogenesis"
 ## "cell migration involved in gastrulation"
 ## "establishment of protein localization to endoplasmic reticulum membrane"
 ## "negative regulation of macrophage differentiation"
 ## "lens fiber cell morphogenesis"
 ## "cell proliferation involved in metanephros development"
 ## "response to interferon-alpha"
 ## "regulation of odontogenesis"
 ## "positive regulation of G0 to G1 transition"
 ## "generation of catalytic spliceosome for second transesterification step"
 ## "nucleotide-excision repair, DNA damage recognition"
 ## "regulation of neurotransmitter levels"

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## "positive regulation of nuclear cell cycle DNA replication"
## "response to parathyroid hormone"
## "regulation of cardiac muscle cell contraction"
## "negative regulation of histone H4 acetylation"
## "regulation of iron ion import"
## "insemination"
## "positive regulation of cell projection organization"
## "regulation of SA node cell action potential"
## "regulation of synaptic vesicle docking"
## "peptidyl-threonine autophosphorylation"
## "negative regulation of translational elongation"
## "negative regulation of acute inflammatory response to non-antigenic stimulus"
## "negative regulation of translational initiation"
## "dosage compensation"
## "mast cell activation"
## "axonal transport"
## "negative regulation of transcription of nucleolar large rRNA by RNA polymerase I"
## "positive regulation of calcium ion transport into cytosol"
## "positive regulation of transporter activity"
## "positive regulation of neutrophil degranulation"
## "ectoderm and mesoderm interaction"
## "epidermal cell division"
## "inositol phosphate dephosphorylation"
## "positive regulation of somatic stem cell population maintenance"
## "lymph vessel morphogenesis"
## "positive regulation of oxidoreductase activity"
## "regulation of gastric acid secretion"
## "protein O-linked glycosylation via threonine"
## "regulation of myosin-light-chain-phosphatase activity"
## "negative regulation of post-translational protein modification"
## "cell-matrix adhesion"
## "synaptic membrane adhesion"
## "regulation of synaptic transmission, dopaminergic"
## "mature natural killer cell chemotaxis"
## "astrocyte differentiation"
## "negative regulation of adiponectin secretion"
## "positive regulation of thymocyte migration"
## "positive regulation of granzyme A production"
## "negative regulation of T-helper 1 cell activation"
## "positive regulation of immunoglobulin production in mucosal tissue"
## "negative regulation of heart rate involved in baroreceptor response to increased s"
## "retinoic acid catabolic process"
## "negative regulation of dendrite development"
## "response to sucrose"
## "negative regulation of mast cell cytokine production"
## "positive regulation of activin receptor signaling pathway"
## "protein-chromophore linkage"
## "Wnt signaling pathway involved in somitogenesis"
## "mitotic recombination-dependent replication fork processing"
## "sperm entry"
## "glomerular visceral epithelial cell differentiation"
## "central nervous system myelination"
## "positive regulation of phosphoprotein phosphatase activity"
## "base-excision repair, gap-filling"

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## "response to chlorate"
## "positive regulation of cytoplasmic mRNA processing body assembly"
## "positive regulation of epithelial cell proliferation involved in wound healing"
## "positive regulation of gliogenesis"
## "positive regulation of protein sumoylation"
## "modulation of age-related behavioral decline"
## "neurotransmitter receptor transport, postsynaptic endosome to lysosome"
## "vesicle organization"
## "negative thymic T cell selection"
## "glycerol-3-phosphate biosynthetic process"
## "negative regulation of T cell differentiation"
## "positive regulation of phospholipase activity"
## "interleukin-2-mediated signaling pathway"
## "pilomotor reflex"
## "positive regulation of megakaryocyte differentiation"
## "lymphocyte migration into lymphoid organs"
## "negative regulation of tumor necrosis factor secretion"
## "negative regulation of early endosome to late endosome transport"
## "transition between slow and fast fiber"
## "dorsal spinal cord development"
## "positive regulation of fibrinolysis"
## "common bile duct development"
## "regulation of atrial cardiac muscle cell action potential"
## "positive regulation of vascular smooth muscle cell differentiation"
## "regulation of nuclear cell cycle DNA replication"
## "positive regulation of low-density lipoprotein particle receptor biosynthetic process"
## "regulation of synaptic vesicle priming"
## "amygdala development"
## "histone H3-K4 dimethylation"
## "regulation of histone H3-K14 acetylation"
## "regulation of protein localization to nucleus"
## "regulation of histone H3-K27 acetylation"
## "positive regulation of cellular response to drug"
## "cellular response to water deprivation"
## "regulation of RNA polymerase II transcriptional preinitiation complex assembly"
## "cellular response to rapamycin"
## "cytokinesis"
## "protein urmylation"
## "tRNA thio-modification"
## "membrane protein ectodomain proteolysis"
## "histone H3-K9 dimethylation"
## "visual perception"
## "snRNA transcription"
## "axon extension involved in axon guidance"
## "spermine transport"
## "establishment of chromatin silencing"
## "female gamete generation"
## "behavioral response to starvation"
## "negative regulation of histone H3-K14 acetylation"
## "negative regulation of cellular response to testosterone stimulus"
## "anterior commissure morphogenesis"
## "U4 snRNA 3'-end processing"
## "negative regulation of immature T cell proliferation"
## "positive regulation of adenylate cyclase-activating G protein-coupled receptor signaling"

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##      "regulation of ovarian follicle development"
##      "short-term memory"
##      "evasion or tolerance by virus of host immune response"
##      "regulation of NLRP3 inflammasome complex assembly"
##      "response to acetate"
##      "positive regulation of steroid biosynthetic process"
##      "renal absorption"
##      "regulation of hematopoietic progenitor cell differentiation"
##      "Schwann cell development"
##      "negative regulation of circadian sleep/wake cycle, non-REM sleep"
##      "negative regulation of mucus secretion"
##      "regulation of peptidase activity"
##      "negative regulation of peptidyl-tyrosine autophosphorylation"
##      "negative regulation of inward rectifier potassium channel activity"
##      "regulation of smooth muscle cell apoptotic process"
##      "regulation of receptor recycling"
##      "regulation of actin filament length"
##      "interleukin-18-mediated signaling pathway"
##      "hematopoietic stem cell homeostasis"
##      "TCR signalosome assembly"
##      "negative regulation of hydrogen peroxide-mediated programmed cell death"
##      "glycolipid biosynthetic process"
##      "negative regulation of MyD88-independent toll-like receptor signaling pathway"
##      "regulation of peroxisome proliferator activated receptor signaling pathway"
##      "cortical actin cytoskeleton organization"
##      "chemoattraction of serotonergic neuron axon"
##      "negative regulation of cell adhesion molecule production"
##      "planar cell polarity pathway involved in outflow tract morphogenesis"
##      "planar cell polarity pathway involved in ventricular septum morphogenesis"
##      "planar cell polarity pathway involved in cardiac right atrium morphogenesis"
##      "planar cell polarity pathway involved in cardiac muscle tissue morphogenesis"
##      "planar cell polarity pathway involved in pericardium morphogenesis"
##      "negative regulation of cell proliferation in midbrain"
##      "planar cell polarity pathway involved in midbrain dopaminergic neuron differentiation"
##      "positive regulation of autophagosome assembly"
##      "estrogen metabolic process"
##      "skeletal muscle satellite cell activation"
##      "central nervous system morphogenesis"
##      "mesodermal to mesenchymal transition involved in gastrulation"
##      "phosphatidylinositol 5-phosphate metabolic process"
##      "cellular response to glycoprotein"
##      "cellular response to thyrotropin-releasing hormone"
##      "nuclear-transcribed mRNA catabolic process, exonucleolytic, 3'-5'"
##      "negative regulation of cellular protein catabolic process"
##      "regulation of hepatocyte growth factor receptor signaling pathway"
##      "dendritic cell dendrite assembly"
##      "regulation of cell-matrix adhesion"
##      "auditory receptor cell fate commitment"
##      "senescence-associated heterochromatin focus assembly"
##      "meiotic DNA double-strand break processing involved in reciprocal meiotic recombination"
##      "regulation of mitotic metaphase/anaphase transition"
##      "regulation of canonical Wnt signaling pathway"
##      "neural crest cell migration involved in heart formation"
##      "cellular biogenic amine metabolic process"

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## "anterior neural tube closure"
## "cellular response to folic acid"
## "negative regulation of entry of bacterium into host cell"
## "regulation of B cell proliferation"
## "positive regulation of flagellated sperm motility involved in capacitation"
## "regulation of hematopoietic stem cell proliferation"
## "positive regulation of dendritic spine maintenance"
## "regulation of regulated secretory pathway"
## "positive regulation of Arp2/3 complex-mediated actin nucleation"
## "female courtship behavior"
## "proteasomal protein catabolic process"
## "macrophage cytokine production"
## "multivesicular body-lysosome fusion"
## "nuclear migration along microfilament"
## "somatostatin secretion"
## "positive regulation of lipoprotein particle clearance"
## "telomere assembly"
## "negative regulation of astrocyte activation"
## "negative regulation of synaptic vesicle recycling"
## "strand displacement"
## "resolution of recombination intermediates"
## "regulation of viral release from host cell"
## "positive regulation of chaperone-mediated protein folding"
## "extracellular transport"
## "establishment of neuroblast polarity"
## "positive regulation of ER-associated ubiquitin-dependent protein catabolic process"
## "positive regulation of timing of anagen"
## "negative regulation of behavioral fear response"
## "neuromuscular junction development"
## "iron ion import across plasma membrane"
## "ovarian cumulus expansion"
## "retinal pigment epithelium development"
## "p38MAPK cascade"
## "kinetochore organization"
## "inositol phosphate catabolic process"
## "vascular endothelial growth factor receptor-2 signaling pathway"
## "maintenance of permeability of blood-brain barrier"
## "recognition of apoptotic cell"
## "relaxation of muscle"
## "chorion development"
## "postsynaptic density protein 95 clustering"
## "bombesin receptor signaling pathway"
## "cellular response to gonadotropin stimulus"
## "TNFSF11-mediated signaling pathway"
## "replication-born double-strand break repair via sister chromatid exchange"
## "mesenchymal-epithelial cell signaling"
## "melanocyte migration"
## "positive regulation of extrinsic apoptotic signaling pathway via death domain receptor"
## "immature B cell differentiation"
## "positive regulation of lipoprotein lipase activity"
## "T-helper 17 cell differentiation"
## "regulation of phosphate transport"
## "random inactivation of X chromosome"
## "protein deacetylation"

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## "hypophysis morphogenesis"
## "positive regulation of synapse maturation"
## "peptidyl-arginine N-methylation"
## "ventricular zone neuroblast division"
## "negative regulation of appetite by leptin-mediated signaling pathway"
## "potassium ion homeostasis"
## "regulation of amyloid-beta formation"
## "positive regulation of bleb assembly"
## "positive regulation of histone H3-K79 methylation"
## "regulation of hair cycle"
## "negative regulation of ERAD pathway"
## "dichotomous subdivision of terminal units involved in salivary gland branching"
## "positive regulation of viral release from host cell"
## "maturation of LSU-rRNA"
## "thromboxane A2 signaling pathway"
## "positive regulation of pancreatic juice secretion"
## "growth plate cartilage chondrocyte development"
## "nucleosome mobilization"
## "negative regulation of CD8-positive, alpha-beta T cell differentiation"
## "negative regulation of sister chromatid cohesion"
## "cell-cell adhesion mediated by cadherin"
## "regulation of growth plate cartilage chondrocyte proliferation"
## "glycoprotein metabolic process"
## "protein desumoylation"
## "ascending aorta morphogenesis"
## "behavior"
## "camera-type eye development"
## "toll-like receptor TLR1:TLR2 signaling pathway"
## "cellular response to triacyl bacterial lipopeptide"
## "optokinetic behavior"
## "regulation of primitive erythrocyte differentiation"
## "eosinophil fate commitment"
## "semicircular canal formation"
## "morphogenesis of an epithelium"
## "catecholamine metabolic process"
## "cerebellar granule cell precursor proliferation"
## "cellular sodium ion homeostasis"
## "response to anoxia"
## "regulation of epidermal cell differentiation"
## "positive regulation of dense core granule biogenesis"
## "planar cell polarity pathway involved in gastrula mediolateral intercalation"
## "snRNA transcription by RNA polymerase III"
## "hematopoietic progenitor cell differentiation"
## "regulation of MyD88-dependent toll-like receptor signaling pathway"
## "positive regulation by host of symbiont cAMP-mediated signal transduction"
## "establishment of protein localization to mitochondrial membrane"
## "membrane depolarization during SA node cell action potential"
## "protein exit from endoplasmic reticulum"
## "fibroblast growth factor receptor signaling pathway involved in orbitofrontal cor
## "regulation of retinal ganglion cell axon guidance"
## "regulation of potassium ion transmembrane transport"
## "positive regulation of hepatic stellate cell activation"
## "negative regulation of cell projection organization"
## "sarcomerogenesis"

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"cellular response to camptothecin"
 ## "Fc receptor signaling pathway"
 ## "trigeminal ganglion development"
 ## "ammonium transmembrane transport"
 ## "cortisol secretion"
 ## "positive regulation of gastric mucosal blood circulation"
 ## "nucleotide-excision repair, DNA gap filling"
 ## "negative regulation of cell cycle G1/S phase transition"
 ## "cardiac muscle cell fate commitment"
 ## "regulation of mRNA binding"
 ## "osteoblast fate commitment"
 ## "regulation of lipid transport by positive regulation of transcription from RNA po
 ## "plus-end-directed organelle transport along microtubule"
 ## "regulation of delayed rectifier potassium channel activity"
 ## "neurofibrillary tangle assembly"
 ## "positive regulation of diacylglycerol kinase activity"
 ## "lung sacculle development"
 ## "dehydroascorbic acid transport"
 ## "negative regulation of histone methylation"
 ## "regulation of podosome assembly"
 ## "blood coagulation, fibrin clot formation"
 ## "regulation of bicellular tight junction assembly"
 ## "cellular magnesium ion homeostasis"
 ## "regulation of lipid biosynthetic process"
 ## "blood vessel lumenization"
 ## "cerebral cortex neuron differentiation"
 ## "positive regulation of T-helper 2 cell activation"
 ## "vitamin transport"
 ## "mitotic sister chromatid cohesion, centromeric"
 ## "negative regulation of transcription from RNA polymerase II promoter involved in s
 ## "posttranscriptional gene silencing"
 ## "thymic T cell selection"
 ## "negative regulation of cytokine secretion involved in immune response"
 ## "extrinsic apoptotic signaling pathway via death domain receptors"
 ## "Wnt signaling pathway involved in midbrain dopaminergic neuron differentiation"
 ## "positive regulation of eukaryotic translation initiation factor 4F complex assemb
 ## "positive regulation of mRNA cap binding"
 ## "regulation of polysome binding"
 ## "tube formation"
 ## "convergent extension involved in organogenesis"
 ## "regulation of double-strand break repair"
 ## "notochord formation"
 ## "transmembrane receptor protein serine/threonine kinase signaling pathway"
 ## "negative regulation of microglial cell activation"
 ## "exocytosis"
 ## "positive regulation of myelination"
 ## "endosomal lumen acidification"
 ## "beta-catenin destruction complex assembly"
 ## "regulation of transcription from RNA polymerase II promoter in response to UV-ind
 ## "regulation of sodium ion transmembrane transport"
 ## "renal artery morphogenesis"
 ## "receptor localization to non-motile cilium"
 ## "cellular response to amino acid stimulus"
 ## "kidney development"

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## "forebrain neuron development"
## "regulation of TOR signaling"
## "positive regulation of growth rate"
## "positive regulation of amyloid precursor protein biosynthetic process"
## "positive regulation of cerebellar granule cell precursor proliferation"
## "positive regulation of histone modification"
## "regulation of histone ubiquitination"
## "positive regulation of Rac protein signal transduction"
## "leukocyte chemotaxis involved in inflammatory response"
## "SREBP signaling pathway"
## "regulation of pro-B cell differentiation"
## "negative regulation of T-helper 1 type immune response"
## "protein auto-ADP-ribosylation"
## "actin polymerization-dependent cell motility"
## "ATP generation from poly-ADP-D-ribose"
## "regulation of response to DNA damage stimulus"
## "chondrocyte differentiation"
## "negative regulation of leukocyte migration"
## "lysosomal transport"
## "regulation of fatty acid beta-oxidation"
## "positive regulation of synaptic transmission, GABAergic"
## "RIG-I signaling pathway"
## "negative regulation of vascular smooth muscle cell proliferation"
## "vitamin D catabolic process"
## "hormonal regulation of the force of heart contraction"
## "positive regulation of the force of heart contraction by chemical signal"
## "thyroid-stimulating hormone signaling pathway"
## "response to epinephrine"
## "actin ubiquitination"
## "positive regulation of interleukin-17-mediated signaling pathway"
## "positive regulation of chemokine (C-C motif) ligand 20 production"
## "inactivation of X chromosome by genetic imprinting"
## "renal sodium ion absorption"
## "cardiac atrium morphogenesis"
## "lung vasculature development"
## "negative regulation of T-helper 17 type immune response"
## "negative regulation of icosanoid secretion"
## "epithelial cell maturation involved in prostate gland development"
## "snRNA 3'-end processing"
## "negative regulation of protein K63-linked ubiquitination"
## "axon ensheathment"
## "collagen-activated signaling pathway"
## "negative regulation of cardiac muscle cell differentiation"
## "RNA methylation"
## "positive regulation of meiotic cell cycle"
## "extrinsic apoptotic signaling pathway"
## "protein O-linked glycosylation via serine"
## "immunoglobulin V(D)J recombination"
## "establishment of endothelial barrier"
## "T-helper 17 cell chemotaxis"
## "negative regulation of eosinophil degranulation"
## "sensory perception of sweet taste"
## "sensory perception of umami taste"
## "leukocyte adhesion to vascular endothelial cell"

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## "positive regulation of immune complex clearance by monocytes and macrophages"
## "positive regulation of CD8-positive, alpha-beta T cell extravasation"
## "positive regulation of astrocyte chemotaxis"
## "focal adhesion assembly"
## "intracellular sequestering of iron ion"
## "Golgi to vacuole transport"
## "negative regulation of phosphatidylinositol 3-kinase signaling"
## "regulation of germinal center formation"
## "positive regulation of hindgut contraction"
## "negative regulation of lymphangiogenesis"
## "metaphase/anaphase transition of mitotic cell cycle"
## "response to rapamycin"
## "cellular response to putrescine"
## "hepatocyte dedifferentiation"
## "cleavage involved in rRNA processing"
## "VEGF-activated neuropilin signaling pathway"
## "cellular response to corticosterone stimulus"
## "motor neuron migration"
## "positive regulation of retinal ganglion cell axon guidance"
## "regulation of leukocyte mediated cytotoxicity"
## "embryonic body morphogenesis"
## "response to sulfur dioxide"
## "T cell extravasation"
## "positive regulation of T cell differentiation in thymus"
## "nuclear export"
## "collagen catabolic process"
## "regulation of aspartic-type endopeptidase activity involved in amyloid precursor p
## "negative regulation of female gonad development"
## "regulation of low-density lipoprotein particle clearance"
## "regulation of endosome organization"
## "sex determination"
## "positive regulation of the force of heart contraction"
## "chromosome passenger complex localization to kinetochore"
## "radial glia guided migration of Purkinje cell"
## "hydroxylysine biosynthetic process"
## "positive regulation of bone development"
## "negative regulation of potassium ion transmembrane transport"
## "negative regulation of nucleotide-binding oligomerization domain containing 2 sig
## "endochondral ossification"
## "regulation of acute inflammatory response"
## "macrophage colony-stimulating factor signaling pathway"
## "stem cell proliferation"
## "membrane depolarization during cardiac muscle cell action potential"
## "positive regulation of monocyte extravasation"
## "lacrimal gland development"
## "progesterone secretion"
## "tRNA 5'-end processing"
## "adaptive immune response based on somatic recombination of immune receptors built
## "defense response to fungus, incompatible interaction"
## "regulation of interleukin-23 production"
## "histone H3-K4 demethylation, trimethyl-H3-K4-specific"
## "retina morphogenesis in camera-type eye"
## "branch elongation involved in mammary gland duct branching"
## "regulation of cartilage development"

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## "positive regulation of receptor clustering"
## "transforming growth factor beta receptor signaling pathway involved in heart deve
## "embryonic liver development"
## "inner cell mass cell differentiation"
## "regulation of MAP kinase activity"
## "T-helper 2 cell differentiation"
## "regulation of receptor-mediated endocytosis"
## "spermatid nucleus differentiation"
## "negative regulation of neutrophil apoptotic process"
## "intrinsic apoptotic signaling pathway in response to endoplasmic reticulum stress
## "positive regulation of monocyte chemotactic protein-1 production"
## "astral microtubule organization"
## "regulation of cellular amino acid metabolic process"
## "high-density lipoprotein particle remodeling"
## "mesodermal cell differentiation"
## "metanephric tubule morphogenesis"
## "regulation of mitotic nuclear division"
## "regulation of endothelial cell chemotaxis to fibroblast growth factor"
## "ventricular trabecula myocardium morphogenesis"
## "negative regulation of macrophage cytokine production"
## "septin ring organization"
## "maintenance of protein location in cell"
## "positive regulation of microglial cell migration"
## "protein localization to mitotic actomyosin contractile ring"
## "negative regulation of translation"
## "response to caloric restriction"
## "positive regulation of mitochondrion organization"
## "positive regulation of triglyceride biosynthetic process"
## "peptidyl-lysine oxidation"
## "mesodermal cell fate specification"
## "negative regulation of endothelial cell differentiation"
## "regulation of memory T cell differentiation"
## "cellular response to gravity"
## "negative regulation of mitotic cell cycle DNA replication"
## "positive regulation of transcytosis"
## "positive regulation of maternal process involved in parturition"
## "positive regulation of gastro-intestinal system smooth muscle contraction"
## "cellular response to 2-O-acetyl-1-O-hexadecyl-sn-glycero-3-phosphocholine"
## "reelin-mediated signaling pathway"
## "negative regulation of histone phosphorylation"
## "erythropoietin-mediated signaling pathway"
## "negative regulation of receptor biosynthetic process"
## "activation of protein kinase activity"
## "negative regulation of toll-like receptor 3 signaling pathway"
## "muscle tissue development"
## "cerebellum vasculature morphogenesis"
## "positive regulation of intracellular signal transduction"
## "epoxygenase P450 pathway"
## "positive regulation of keratinocyte apoptotic process"
## "negative regulation of chondrocyte proliferation"
## "histone phosphorylation"
## "response to follicle-stimulating hormone"
## "negative regulation of maintenance of mitotic sister chromatid cohesion, telomeri
## "positive regulation of chemokine biosynthetic process"

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##      "maturation of 5S rRNA"
##      "positive regulation of centrosome duplication"
##      "ventral spinal cord development"
##      "negative regulation of telomere maintenance via recombination"
##      "sequestering of actin monomers"
##      "anterograde axonal transport of messenger ribonucleoprotein complex"
##      "positive regulation of mitotic cell cycle phase transition"
##      "negative regulation of beta-galactosidase activity"
##      "negative regulation of telomere single strand break repair"
##      "monoubiquitinated protein deubiquitination"
##      "regulation of low-density lipoprotein particle receptor biosynthetic process"
##      "iris morphogenesis"
##      "cranial suture morphogenesis"
##      "positive regulation of cyclic nucleotide-gated ion channel activity"
##      "regulation of postsynaptic density protein 95 clustering"
##      "positive regulation of cellular response to insulin stimulus"
##      "thyroid hormone generation"
##      "negative regulation of dephosphorylation"
##      "neuroblast migration"
##      "positive regulation of ion transmembrane transporter activity"
##      "intracellular pH elevation"
##      "endothelial cell-cell adhesion"
##      "positive regulation of macrophage cytokine production"
##      "negative regulation of lysosomal protein catabolic process"
##      "positive regulation of cytotoxic T cell differentiation"
##      "positive regulation of lactation"
##      "cellular response to oxygen-glucose deprivation"
##      "positive regulation of T cell mediated cytotoxicity"
##      "endoplasmic reticulum mannose trimming"
##      "cytosolic calcium signaling involved in initiation of cell movement in glial-media
##      "regulation of microglial cell migration"
##      "leukocyte migration involved in inflammatory response"
##      "regulation of proteasomal ubiquitin-dependent protein catabolic process"
##      "positive regulation of mammary gland epithelial cell proliferation"
##      "brain morphogenesis"
##      "midbrain-hindbrain boundary development"
##      "hematopoietic stem cell migration"
##      "type 2 immune response"
##      "free ubiquitin chain polymerization"
##      "regulation of mRNA 3'-end processing"
##      "negative regulation of low-density lipoprotein particle clearance"
##      "negative regulation of CD4-positive, alpha-beta T cell differentiation"
##      "negative regulation of renin secretion into blood stream"
##      "muscular septum morphogenesis"
##      "type B pancreatic cell differentiation"
##      "telomere maintenance via telomerase"
##      "cellular response to electrical stimulus"
##      "protein localization to phagophore assembly site"
##      "protein transport to vacuole involved in ubiquitin-dependent protein catabolic pr
##      "negative regulation of translational initiation in response to stress"
##      "positive regulation of kinase activity"
##      "blastocyst hatching"
##      "positive regulation of cellular extravasation"
##      "negative regulation of neuron migration"

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##      "regulation of postsynaptic neurotransmitter receptor internalization"
##      "extracellular matrix assembly"
##      "eosinophil degranulation"
##      "calcitonin gene-related peptide receptor signaling pathway"
##      "cerebellar granule cell precursor tangential migration"
##      "protein linear polyubiquitination"
##      "bone mineralization"
##      "transformation of host cell by virus"
##      "commitment of neuronal cell to specific neuron type in forebrain"
##      "negative regulation of superoxide anion generation"
##      "toll-like receptor TLR6:TLR2 signaling pathway"
##      "cellular response to diacyl bacterial lipopeptide"
##      "pyrimidine dimer repair by nucleotide-excision repair"
##      "cardiac septum development"
##      "lipid storage"
##      "negative regulation of interleukin-8 biosynthetic process"
##      "negative regulation of lymphocyte differentiation"
##      "primitive streak formation"
##      "vasopressin secretion"
##      "anterograde neuronal dense core vesicle transport"
##      "regulation of G protein-coupled receptor signaling pathway"
##      "protein localization to paranode region of axon"
##      "DNA methylation on cytosine within a CG sequence"
##      "type I pneumocyte differentiation"
##      "interleukin-10 production"
##      "Peyer's patch morphogenesis"
##      "regulation of membrane depolarization"
##      "regulation of neurotransmitter secretion"
##      "regulation of transcription involved in G1/S transition of mitotic cell cycle"
##      "positive regulation of histone acetylation"
##      "semicircular canal morphogenesis"
##      "membrane hyperpolarization"
##      "regulation of epithelial to mesenchymal transition involved in endocardial cushion"
##      "monoubiquitinated histone H2A deubiquitination"
##      "promoter clearance from RNA polymerase II promoter"
##      "regulation of transposition, RNA-mediated"
##      "regulation of mast cell chemotaxis"
##      "cellular response to morphine"
##      "regulation of neutrophil migration"
##      "regulation of calcidiol 1-monooxygenase activity"
##      "mononuclear cell proliferation"
##      "regulation of B cell apoptotic process"
##      "detection of muscle stretch"
##      "postsynapse assembly"
##      "forebrain radial glial cell differentiation"
##      "negative regulation of prostaglandin biosynthetic process"
##      "Clara cell differentiation"
##      "maintenance of DNA methylation"
##      "protein localization to adherens junction"
##      "negative regulation of transforming growth factor beta1 production"
##      "mitotic DNA replication checkpoint"
##      "calcium ion import across plasma membrane"
##      "blood vessel endothelial cell proliferation involved in sprouting angiogenesis"
##      "positive regulation of granulocyte differentiation"

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##      "vitamin D receptor signaling pathway"
##      "superior temporal gyrus development"
##      "positive regulation of mononuclear cell migration"
##      "epithelial cell-cell adhesion"
##      "response to ultrasound"
##      "follicular B cell differentiation"
##      "cellular hyperosmotic salinity response"
##      "negative regulation of intrinsic apoptotic signaling pathway in response to DNA d
##      "positive regulation of T cell tolerance induction"
##      "mesenchymal cell proliferation"
##      "cellular response to cell-matrix adhesion"
##      "negative regulation of pancreatic juice secretion"
##      "astrocyte cell migration"
##      "regulation of neuron projection development"
##      "cholesterol transport"
##      "regulation of action potential"
##      "regulation of vascular endothelial growth factor receptor signaling pathway"
##      "positive regulation of transcription from RNA polymerase II promoter by galactose
##      "syncytiotrophoblast cell differentiation involved in labyrinthine layer developmen
##      "positive regulation of excitatory postsynaptic potential"
##      "positive regulation of integrin activation by cell surface receptor linked signal
##      "negative regulation of lipase activity"
##      "negative regulation of leukocyte activation"
##      "labyrinthine layer morphogenesis"
##      "mannose transmembrane transport"
##      "cholesterol esterification"
##      "axial mesoderm development"
##      "sialylation"
##      "retrograde transport, vesicle recycling within Golgi"
##      "embryonic placenta development"
##      "cerebral cortex radially oriented cell migration"
##      "positive regulation of mitotic cell cycle"
##      "negative regulation of formation of translation preinitiation complex"
##      "positive regulation of intrinsic apoptotic signaling pathway in response to DNA d
##      "regulation of translation involved in cellular response to UV"
##      "regulation of circadian sleep/wake cycle, wakefulness"
##      "circadian sleep/wake cycle process"
##      "negative regulation of interleukin-8 production"
##      "spinal cord ventral commissure morphogenesis"
##      "cell development"
##      "propylene metabolic process"
##      "pons maturation"
##      "response to glycine"
##      "telomeric loop formation"
##      "regulation of penile erection"
##      "negative regulation of apoptotic process in bone marrow"
##      "negative regulation of cytokine-mediated signaling pathway"
##      "dorsal/ventral axon guidance"
##      "neuron differentiation"
##      "embryonic heart tube development"
##      "signal transduction involved in mitotic G2 DNA damage checkpoint"
##      "positive regulation of DNA catabolic process"
##      "regulation of microglial cell activation"
##      "regulation of cellular response to gamma radiation"

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## "inhibitory synapse assembly"
## "ossification involved in bone remodeling"
## "positive regulation of NF-kappaB transcription factor activity"
## "cytoskeletal anchoring at nuclear membrane"
## "negative regulation of ventricular cardiac muscle cell action potential"
## "positive regulation of keratinocyte proliferation"
## "cellular response to iron ion"
## "negative regulation of cilium assembly"
## "T-helper 17 cell lineage commitment"
## "somatic diversification of immunoglobulins"
## "negative regulation of cell cycle process"
## "nuclear fragmentation involved in apoptotic nuclear change"
## "negative regulation of DNA metabolic process"
## "leukocyte proliferation"
## "positive regulation of neutrophil mediated killing of gram-negative bacterium"
## "interleukin-10 secretion"
## "chemokine secretion"
## "negative regulation of chemokine secretion"
## "DNA catabolic process, exonucleolytic"
## "mesonephros development"
## "negative regulation of isotype switching to IgA isotypes"
## "Wnt signaling pathway, calcium modulating pathway"
## "notochord morphogenesis"
## "muscle cell fate commitment"
## "negative regulation of axon regeneration"
## "negative regulation of uterine smooth muscle contraction"
## "cell recognition"
## "positive regulation of transcription via serum response element binding"
## "regulation of signaling"
## "positive regulation of platelet-derived growth factor receptor-beta signaling path"
## "neuromuscular synaptic transmission"
## "negative regulation of muscle cell apoptotic process"
## "nucleosome organization"
## "vesicle-mediated transport in synapse"
## "negative regulation of integrin activation"
## "positive regulation of T cell differentiation"
## "positive regulation of double-strand break repair"
## "negative regulation of glucose transmembrane transport"
## "interstrand cross-link repair"
## "cerebral cortex regionalization"
## "regulation of chromosome organization"
## "phospholipid efflux"
## "regulation of interferon-beta production"
## "tRNA wobble uridine modification"
## "ISG15-protein conjugation"
## "positive regulation of transmission of nerve impulse"
## "negative regulation of thymocyte apoptotic process"
## "negative regulation of maintenance of mitotic sister chromatid cohesion, centromer"
## "neural tube patterning"
## "ossification involved in bone maturation"
## "positive regulation of glial cell proliferation"
## "DNA methylation involved in gamete generation"
## "cellular response to iron(III) ion"
## "skeletal muscle contraction"

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##      "DNA replication, Okazaki fragment processing"
##      "regulatory T cell differentiation"
##      "spongiotrophoblast layer development"
##      "cell fate determination"
##      "ovulation cycle process"
##      "secondary heart field specification"
##      "recruitment of 3'-end processing factors to RNA polymerase II holoenzyme complex"
##      "animal organ senescence"
##      "regulation of endothelial cell migration"
##      "positive regulation of interleukin-23 production"
##      "organic acid metabolic process"
##      "DNA deamination"
##      "regulation of neurotransmitter uptake"
##      "trigeminal nerve structural organization"
##      "positive regulation of Wnt protein secretion"
##      "neuroligin clustering involved in postsynaptic membrane assembly"
##      "positive regulation of dendrite development"
##      "development of primary female sexual characteristics"
##      "positive regulation of meiotic nuclear division"
##      "regulation of synapse assembly"
##      "transepithelial water transport"
##      "negative regulation of protein refolding"
##      "negative regulation of muscle atrophy"
##      "negative regulation of heterotypic cell-cell adhesion"
##      "endocrine signaling"
##      "cell surface pattern recognition receptor signaling pathway"
##      "regulation of histone phosphorylation"
##      "serotonin metabolic process"
##      "cell cycle G2/M phase transition"
##      "negative regulation of response to cytokine stimulus"
##      "regulation of lens fiber cell differentiation"
##      "antral ovarian follicle growth"
##      "retina development in camera-type eye"
##      "Notch signaling involved in heart development"
##      "regulation of osteoclast differentiation"
##      "calcium-dependent cell-matrix adhesion"
##      "phospholipase D-activating G protein-coupled receptor signaling pathway"
##      "peptidyl-tyrosine autophosphorylation"
##      "protein kinase C deactivation"
##      "rhythmic excitation"
##      "regulation of female gonad development"
##      "negative regulation of very-low-density lipoprotein particle remodeling"
##      "telencephalon cell migration"
##      "nitric oxide homeostasis"
##      "positive regulation of renin secretion into blood stream"
##      "CD8-positive, alpha-beta T cell differentiation"
##      "histone H2A K63-linked ubiquitination"
##      "positive regulation of RIG-I signaling pathway"
##      "growth plate cartilage chondrocyte growth"
##      "regulation of phosphatidylcholine catabolic process"
##      "positive regulation of CD8-positive, alpha-beta T cell differentiation"
##      "lens induction in camera-type eye"
##      "endothelial cell proliferation"
##      "response to methylglyoxal"

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## "negative regulation of histone H3-K27 acetylation"
## "T cell antigen processing and presentation"
## "Golgi vesicle fusion to target membrane"
## "extraocular skeletal muscle development"
## "positive regulation of phospholipase A2 activity"
## "negative regulation of establishment of endothelial barrier"
## "otic vesicle formation"
## "cellular response to ionomycin"
## "positive regulation of ceramide biosynthetic process"
## "positive regulation of protein oligomerization"
## "response to prostaglandin F"
## "polarized epithelial cell differentiation"
## "positive regulation of chemokine-mediated signaling pathway"
## "negative regulation of integrin biosynthetic process"
## "negative regulation of prostatic bud formation"
## "regulation of phenotypic switching by transcription from RNA polymerase II promoter"
## "positive regulation of hydrogen sulfide biosynthetic process"
## "male somatic sex determination"
## "activation of prostate induction by androgen receptor signaling pathway"
## "response to intra-S DNA damage checkpoint signaling"
## "secretion"
## "positive regulation of CD4-positive, alpha-beta T cell differentiation"
## "basement membrane assembly"
## "regulation of odontoblast differentiation"
## "positive regulation of cell-cell adhesion mediated by cadherin"
## "positive regulation of transcription from RNA polymerase II promoter involved in transcription"
## "smooth muscle cell proliferation"
## "positive regulation of NLRP3 inflammasome complex assembly"
## "regulation of RNA biosynthetic process"
## "maternal process involved in parturition"
## "postsynapse to nucleus signaling pathway"
## "salivary gland development"
## "establishment of localization in cell"
## "nucleolus organization"
## "JNK cascade"
## "negative regulation of vascular associated smooth muscle cell apoptotic process"
## "progesterone receptor signaling pathway"
## "B cell lineage commitment"
## "cell differentiation involved in kidney development"
## "positive regulation of postsynaptic cytosolic calcium concentration"
## "spine apparatus assembly"
## "regulation of blood vessel remodeling"
## "negative regulation of granulocyte differentiation"
## "necroptotic signaling pathway"
## "mitotic DNA replication initiation"
## "synthesis of RNA primer involved in mitotic DNA replication"
## "DNA synthesis involved in UV-damage excision repair"
## "plasma membrane repair"
## "regulation of lysosome organization"
## "positive regulation of transcription factor catabolic process"
## "pre-replicative complex assembly involved in nuclear cell cycle DNA replication"
## "chiasma assembly"
## "regulation of protein stability"
## "regulation of defense response to virus by virus"

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"angiotensin-mediated vasoconstriction involved in regulation of systemic arterial
 ## "alpha-beta T cell lineage commitment"
 ## "trabecula morphogenesis"
 ## "mitotic cleavage furrow formation"
 ## "positive regulation of vascular smooth muscle contraction"
 ## "canonical Wnt signaling pathway involved in midbrain dopaminergic neuron differen
 ## "cell surface receptor signaling pathway involved in cell-cell signaling"
 ## "regulation of cAMP-mediated signaling"
 ## "cellular lipid metabolic process"
 ## "positive regulation of dendritic cell dendrite assembly"
 ## "negative regulation of integrin-mediated signaling pathway"
 ## "negative regulation of plasminogen activation"
 ## "histone H3-R2 methylation"
 ## "positive regulation of inhibitory G protein-coupled receptor phosphorylation"
 ## "planar cell polarity pathway involved in axis elongation"
 ## "lymphocyte aggregation"
 ## "positive regulation of protein processing"
 ## "late endosome to vacuole transport"
 ## "trans-synaptic signaling by trans-synaptic complex, modulating synaptic transmissi
 ## "bile acid signaling pathway"
 ## "cloacal septation"
 ## "mammary gland morphogenesis"
 ## "complement activation, lectin pathway"
 ## "negative regulation of NAD(P)H oxidase activity"
 ## "retrograde trans-synaptic signaling by endocannabinoid"
 ## "clathrin-coated pit assembly"
 ## "anatomical structure development"
 ## "positive regulation of sarcomere organization"
 ## "response to aldosterone"
 ## "regulation of T cell chemotaxis"
 ## "positive regulation of cell proliferation by VEGF-activated platelet derived grow
 ## "desmosome organization"
 ## "ovulation"
 ## "cellular response to vitamin E"
 ## "negative regulation of vascular endothelial growth factor signaling pathway"
 ## "positive regulation of CD8-positive, alpha-beta T cell proliferation"
 ## "spinal cord association neuron differentiation"
 ## "embryo implantation"
 ## "negative regulation of biomineral tissue development"
 ## "lymphocyte homeostasis"
 ## "multivesicular body sorting pathway"
 ## "intramembranous ossification"
 ## "chylomicron remnant clearance"
 ## "sperm chromatin condensation"
 ## "tolerance induction"
 ## "smoothened signaling pathway involved in ventral spinal cord interneuron specific
 ## "smoothened signaling pathway involved in spinal cord motor neuron cell fate speci
 ## "interkinetic nuclear migration"
 ## "negative regulation of amyloid precursor protein biosynthetic process"
 ## "positive regulation of T-helper 17 type immune response"
 ## "negative regulation of chromatin binding"
 ## "positive regulation of chromosome segregation"
 ## "cell aging"
 ## "female genitalia morphogenesis"

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## "positive regulation of hydrolase activity"
## "positive regulation of T-helper 1 cell cytokine production"
## "Kit signaling pathway"
## "cellular response to UV"
## "regulation of synapse structural plasticity"
## "lymphocyte chemotaxis across high endothelial venule"
## "regulation of humoral immune response"
## "regulation of fever generation"
## "enteric smooth muscle cell differentiation"
## "endothelial cell chemotaxis to fibroblast growth factor"
## "cellular response to light stimulus"
## "response to endothelin"
## "negative regulation of endothelial cell chemotaxis to fibroblast growth factor"
## "response to starvation"
## "regulation of protein catabolic process at postsynapse, modulating synaptic trans
## "positive regulation of dendritic cell differentiation"
## "regulation of translational elongation"
## "histone dephosphorylation"
## "regulation of keratinocyte differentiation"
## "re-entry into mitotic cell cycle"
## "miRNA catabolic process"
## "cellular phosphate ion homeostasis"
## "regulation of glycogen biosynthetic process"
## "nucleokinesis involved in cell motility in cerebral cortex radial glia guided mig
## "positive regulation of T-helper 1 type immune response"
## "Sertoli cell fate commitment"
## "positive regulation of DNA methylation"
## "axonal transport of mitochondrion"
## "positive regulation of peroxisome proliferator activated receptor signaling pathw
## "T cell activation via T cell receptor contact with antigen bound to MHC molecule
## "negative regulation of neuron maturation"
## "secretion of lysosomal enzymes"
## "selenocysteine incorporation"
## "olfactory learning"
## "positive regulation of heart rate by epinephrine-norepinephrine"
## "positive regulation of the force of heart contraction by epinephrine-norepinephrin
## "histone H3-T11 phosphorylation"
## "positive regulation of mast cell degranulation"
## "negative regulation of mitotic metaphase/anaphase transition"
## "regulation of systemic arterial blood pressure by circulatory renin-angiotensin"
## "angiotensin-mediated vasodilation involved in regulation of systemic arterial blo
## "brain renin-angiotensin system"
## "aldosterone secretion"
## "apelin receptor signaling pathway"
## "positive regulation of G protein-coupled receptor internalization"
## "positive regulation of myoblast proliferation"
## "negative regulation of netrin-activated signaling pathway"
## "covalent chromatin modification"
## "lymph node development"
## "hair follicle development"
## "regulation of branching involved in mammary gland duct morphogenesis"
## "regulation of metanephric nephron tubule epithelial cell differentiation"
## "response to sodium phosphate"
## "regulation of B cell receptor signaling pathway"

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## "sodium ion homeostasis"
## "protein localization to membrane"
## "chorio-allantoic fusion"
## "positive regulation of cardioblast differentiation"
## "negative regulation of SREBP signaling pathway"
## "histone H2A-K119 monoubiquitination"
## "negative regulation of calcium ion transmembrane transport via high voltage-gated"
## "positive regulation of activation of membrane attack complex"
## "positive regulation of male gonad development"
## "positive regulation of nucleoside transport"
## "negative regulation of neurotrophin production"
## "eukaryotic translation initiation factor 4F complex assembly"
## "conditioned place preference"
## "negative regulation of lipid transport"
## "cytoplasmic sequestering of transcription factor"
## "positive regulation of locomotion"
## "epithelial structure maintenance"
## "N-terminal peptidyl-serine acetylation"
## "N-terminal peptidyl-glutamic acid acetylation"
## "toxin metabolic process"
## "negative regulation of sequestering of triglyceride"
## "steroid hormone mediated signaling pathway"
## "detection of lipopolysaccharide"
## "positive regulation of tolerance induction to self antigen"
## "positive regulation of B cell tolerance induction"
## "negative regulation of hydrolase activity"
## "cell proliferation involved in endocardial cushion morphogenesis"
## "superior endocardial cushion morphogenesis"
## "inferior endocardial cushion morphogenesis"
## "post-embryonic cardiac muscle cell growth involved in heart morphogenesis"
## "positive regulation of chromatin silencing at telomere"
## "positive regulation of telomeric heterochromatin assembly"
## "ion homeostasis"
## "monocyte aggregation"
## "response to fungicide"
## "skeletal muscle satellite cell migration"
## "positive regulation of microtubule plus-end binding"
## "high-density lipoprotein particle clearance"
## "CD8-positive, alpha-beta intraepithelial T cell differentiation"
## "establishment of apical/basal cell polarity"
## "meiotic chromosome separation"
## "transcriptional open complex formation at RNA polymerase II promoter"
## "negative regulation of plasma membrane long-chain fatty acid transport"
## "forebrain dorsal/ventral pattern formation"
## "cellular triglyceride homeostasis"
## "positive regulation of long-term neuronal synaptic plasticity"
## "regulation of extracellular exosome assembly"
## "lateral ventricle development"
## "multicellular organismal homeostasis"
## "cellular hyperosmotic response"
## "interleukin-4 secretion"
## "vitellogenesis"
## "peripheral nervous system development"
## "establishment of protein localization to telomere"

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## "regulation of modification of postsynaptic actin cytoskeleton"
## "positive regulation of integrin biosynthetic process"
## "antimicrobial humoral immune response mediated by antimicrobial peptide"
## "antigen processing and presentation of exogenous peptide antigen via MHC class I,"
## "positive regulation of MHC class II biosynthetic process"
## "prostate epithelial cord elongation"
## "negative regulation of protein import into nucleus"
## "JAK-STAT cascade involved in growth hormone signaling pathway"
## "histone H3-R17 methylation"
## "positive regulation of eosinophil degranulation"
## "negative regulation of skeletal muscle tissue development"
## "positive regulation of hypersensitivity"
## "response to corticosteroid"
## "chemokine (C-C motif) ligand 19 signaling pathway"
## "chemokine (C-C motif) ligand 21 signaling pathway"
## "regulation of fibroblast growth factor receptor signaling pathway"
## "positive regulation of vascular permeability"
## "positive regulation of vacuole organization"
## "canonical Wnt signaling pathway involved in positive regulation of cardiac outflow"
## "cellular response to prostaglandin stimulus"
## "lymphocyte migration into lymph node"
## "positive regulation of protein localization to presynapse"
## "positive regulation of immunological synapse formation"
## "positive regulation of T cell costimulation"
## "positive regulation of glycoprotein biosynthetic process involved in immunological"
## "regulation of dendritic cell dendrite assembly"
## "poly-N-acetyllactosamine biosynthetic process"
## "histone H3-K9 acetylation"
## "positive regulation of cholesterol biosynthetic process"
## "negative regulation of mitotic cell cycle, embryonic"
## "regulation of timing of cell differentiation"
## "positive regulation of transforming growth factor beta production"
## "positive regulation of secondary heart field cardioblast proliferation"
## "atrial septum primum morphogenesis"
## "regulation of developmental growth"
## "myoblast fate commitment"
## "regulation of defense response to virus"
## "neural crest cell migration"
## "regulation of endoribonuclease activity"
## "regulation of eIF2 alpha phosphorylation by dsRNA"
## "regulation of mRNA stability involved in cellular response to UV"
## "positive regulation of mRNA catabolic process"
## "regulation of cell cycle arrest"
## "receptor-mediated virion attachment to host cell"
## "monounsaturated fatty acid biosynthetic process"
## "embryonic retina morphogenesis in camera-type eye"
## "positive regulation of respiratory burst involved in inflammatory response"
## "sensory perception of chemical stimulus"
## "negative regulation of macrophage derived foam cell differentiation"
## "negative regulation of cell differentiation"
## "regulation of nitric-oxide synthase activity"
## "ciliary receptor clustering involved in smoothened signaling pathway"
## "cardiac muscle tissue regeneration"
## "mismatch repair"

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## "cell proliferation in hindbrain"
## "negative regulation of Schwann cell migration"
## "negative regulation of root hair elongation"
## "negative regulation of Schwann cell proliferation involved in axon regeneration"
## "branching involved in prostate gland morphogenesis"
## "positive regulation of vascular endothelial growth factor signaling pathway"
## "nuclear body organization"
## "positive regulation of G protein-coupled receptor signaling pathway"
## "regulation of plasminogen activation"
## "Roundabout signaling pathway"
## "negative regulation of development of symbiont involved in interaction with host"
## "catabolism by host of symbiont protein"
## "positive regulation of low-density lipoprotein particle receptor binding"
## "positive regulation of low-density lipoprotein receptor activity"
## "protein palmitoylation"
## "regulation of lymphocyte activation"
## "positive regulation of RNA splicing"
## "cytoplasmic mRNA processing body assembly"
## "positive regulation of lipase activity"
## "general adaptation syndrome, behavioral process"
## "interleukin-35-mediated signaling pathway"
## "negative regulation of protein localization to microtubule"
## "positive regulation of macrophage apoptotic process"
## "DNA packaging"
## "dolichyl diphosphate biosynthetic process"
## "positive regulation of establishment of protein localization"
## "complement component C5a signaling pathway"
## "sensitization"
## "beta selection"
## "positive regulation of mRNA polyadenylation"
## "cation transport"
## "positive regulation of toll-like receptor 2 signaling pathway"
## "regulation of fibroblast proliferation"
## "regulation of long-term synaptic potentiation"
## "folate import across plasma membrane"
## "regulation of membrane repolarization during action potential"
## "positive regulation of adiponectin secretion"
## "negative regulation of protein deubiquitination"
## "bone resorption"
## "maintenance of epithelial cell apical/basal polarity"
## "somatic stem cell division"
## "positive regulation of synaptic transmission, cholinergic"
## "regulation of vesicle size"
## "negative regulation of activation of membrane attack complex"
## "protein localization to photoreceptor outer segment"
## "inner cell mass cellular morphogenesis"
## "positive regulation of CREB transcription factor activity"
## "piecemeal microautophagy of the nucleus"
## "regulation of metanephros size"
## "positive regulation of B cell chemotaxis"
## "urinary bladder smooth muscle contraction"
## "lung growth"
## "regulation of lymphocyte apoptotic process"
## "cytolysis by host of symbiont cells"

```

"olfactory bulb interneuron differentiation"
 ## "tumor necrosis factor production"
 ## "positive regulation of interleukin-10 secretion"
 ## "post-chaperonin tubulin folding pathway"
 ## "histone H3-K9 demethylation"
 ## "RNA transport"
 ## "negative regulation of triglyceride biosynthetic process"
 ## "peripheral nervous system neuron development"
 ## "inner ear receptor cell stereocilium organization"
 ## "negative regulation of DNA methylation"
 ## "activation of store-operated calcium channel activity"
 ## "regulation of Golgi organization"
 ## "retinal cone cell development"
 ## "sensory perception of bitter taste"
 ## "regulation of triglyceride biosynthetic process"
 ## "positive regulation of metalloendopeptidase activity"
 ## "regulation of high voltage-gated calcium channel activity"
 ## "positive regulation of glial cell migration"
 ## "glycosaminoglycan metabolic process"
 ## "platelet activating factor metabolic process"
 ## "regulation of substrate adhesion-dependent cell spreading"
 ## "negative regulation of smooth muscle cell proliferation"
 ## "cellular response to selenite ion"
 ## "negative regulation of selenocysteine incorporation"
 ## "negative regulation of selenocysteine insertion sequence binding"
 ## "positive regulation of acetylcholine secretion, neurotransmission"
 ## "glial cell apoptotic process"
 ## "negative regulation of neurotransmitter secretion"
 ## "pericardium morphogenesis"
 ## "regulation of serotonin secretion"
 ## "regulation of odontogenesis of dentin-containing tooth"
 ## "regulation of glucose import"
 ## "lung epithelial cell differentiation"
 ## "endocrine pancreas development"
 ## "regulation of wound healing"
 ## "positive regulation of interleukin-1 alpha biosynthetic process"
 ## "positive regulation of mRNA cleavage"
 ## "late nucleophagy"
 ## "snRNA localization"
 ## "positive regulation of pro-B cell differentiation"
 ## "chemokine (C-C motif) ligand 2 secretion"
 ## "epithelial cell differentiation involved in prostate gland development"
 ## "negative regulation of toll-like receptor signaling pathway"
 ## "cell-cell junction organization"
 ## "retinal rod cell development"
 ## "positive regulation of interleukin-13 secretion"
 ## "negative regulation of microtubule binding"
 ## "global genome nucleotide-excision repair"
 ## "sensory perception of temperature stimulus"
 ## "negative regulation of mesoderm development"
 ## "chondrocyte development"
 ## "regulation of thyroid hormone mediated signaling pathway"
 ## "positive regulation of type IIa hypersensitivity"
 ## "glucocorticoid metabolic process"


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##      "vesicle budding from membrane"
##      "basophil differentiation"
##      "negative regulation of vascular smooth muscle cell differentiation involved in ph
##      "TRAIL-activated apoptotic signaling pathway"
##      "germinal center formation"
##      "camera-type eye morphogenesis"
##      "septum digestion after cytokinesis"
##      "regulation of p38MAPK cascade"
##      "glucocorticoid biosynthetic process"
##      "regulation of skeletal muscle satellite cell proliferation"
##      "positive regulation of saliva secretion"
##      "epithelium development"
##      "DNA damage response, detection of DNA damage"
##      "positive regulation of gastric acid secretion"
##      "regulation of ubiquitin-dependent protein catabolic process"
##      "positive regulation of vasculogenesis"
##      "regulation of isotype switching"
##      "motor behavior"
##      "dendrite self-avoidance"
##      "regulation of dendrite development"
##      "regulation of RNA polymerase II regulatory region sequence-specific DNA binding"
##      "glandular epithelial cell development"
##      "response to mechanical stimulus"
##      "positive regulation of interleukin-18 production"
##      "canonical Wnt signaling pathway involved in negative regulation of apoptotic proc
##      "negative regulation of collateral sprouting"
##      "tertiary branching involved in mammary gland duct morphogenesis"
##      "negative regulation of humoral immune response mediated by circulating immunoglob
##      "negative regulation of circadian sleep/wake cycle, REM sleep"
##      "optic cup formation involved in camera-type eye development"
##      "establishment of planar polarity of embryonic epithelium"
##      "type II pneumocyte differentiation"
##      "cochlea development"
##      "negative regulation of hepatocyte proliferation"
##      "positive regulation of MAPKKK cascade by fibroblast growth factor receptor signal
##      "membrane raft assembly"
##      "glial cell-derived neurotrophic factor receptor signaling pathway"
##      "phosphatidylinositol-mediated signaling"
##      "trachea cartilage development"
##      "regulation of histamine secretion by mast cell"
##      "positive regulation of potassium ion transport"
##      "positive regulation of DNA binding"
##      "negative regulation of guanyl-nucleotide exchange factor activity"
##      "regulation of heart rate by chemical signal"
##      "positive regulation of epithelial cell proliferation involved in prostate gland d
##      "cerebellar Purkinje cell layer morphogenesis"
##      "negative regulation of non-canonical Wnt signaling pathway"
##      "isotype switching to IgA isotypes"
##      "DN2 thymocyte differentiation"
##      "DN3 thymocyte differentiation"
##      "regulation of transcription by RNA polymerase III"
##      "long-chain fatty acid transport"
##      "response to external biotic stimulus"
##      "regulation of angiotensin metabolic process"

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##      "prostatic bud formation"
##      "ovulation from ovarian follicle"
##      "positive regulation of transcription regulatory region DNA binding"
##      "lymphoid progenitor cell differentiation"
##      "pre-B cell allelic exclusion"
##      "positive regulation of neuron maturation"
##      "regulation of SMAD protein complex assembly"
##      "protein modification process"
##      "negative regulation of alpha-beta T cell proliferation"
##      "positive regulation of nitric-oxide synthase biosynthetic process"
##      "cellular response to muramyl dipeptide"
##      "regulation of protein deubiquitination"
##      "regulation of oxidative stress-induced neuron intrinsic apoptotic signaling pathway"
##      "positive regulation of myofibroblast differentiation"
##      "toll-like receptor signaling pathway"
##      "regulation of actin polymerization or depolymerization"
##      "negative regulation of lymphocyte proliferation"
##      "positive regulation of humoral immune response"
##      "regulation of glomerular filtration"
##      "production of molecular mediator involved in inflammatory response"
##      "very-low-density lipoprotein particle clearance"
##      "positive regulation of vitamin D 24-hydroxylase activity"
##      "cardiac ventricle development"
##      "regulation of peptidyl-serine phosphorylation"
##      "synaptonemal complex assembly"
##      "negative regulation of microtubule polymerization or depolymerization"
##      "positive regulation of corticotropin-releasing hormone secretion"
##      "lamellipodium organization"
##      "myeloid progenitor cell differentiation"
##      "toll-like receptor 3 signaling pathway"
##      "histone H3-K36 demethylation"
##      "positive regulation of peptidyl-tyrosine autophosphorylation"
##      "positive regulation of endothelial cell apoptotic process"
##      "positive regulation of corticosterone secretion"
##      "central nervous system neuron development"
##      "retina vasculature development in camera-type eye"
##      "growth plate cartilage chondrocyte morphogenesis"
##      "negative regulation of viral entry into host cell"
##      "regulation of systemic arterial blood pressure"
##      "nitric oxide transport"
##      "lung-associated mesenchyme development"
##      "negative regulation of pinocytosis"
##      "regulation of phosphatidylinositol dephosphorylation"
##      "negative regulation of secretion by cell"
##      "DNA strand elongation involved in DNA replication"
##      "proteasome-mediated ubiquitin-dependent protein catabolic process"
##      "cellular response to diamide"
##      "regulation of chromosome condensation"
##      "receptor-mediated endocytosis of virus by host cell"
##      "regulation of extracellular matrix assembly"
##      "regulation of locomotor rhythm"
##      "positive regulation of dendritic cell apoptotic process"
##      "negative regulation of inflammatory response to antigenic stimulus"
##      "positive regulation of double-strand break repair via nonhomologous end joining"

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##      "cell morphogenesis"
##      "nucleolar fragmentation"
##      "microtubule cytoskeleton organization involved in establishment of planar polarity"
##      "cellular response to angiotensin"
##      "positive regulation of establishment of endothelial barrier"
##      "positive regulation of sodium ion transport"
##      "positive regulation of activated T cell proliferation"
##      "positive regulation of cell cycle G2/M phase transition"
##      "response to peptide hormone"
##      "COPII vesicle coating"
##      "regulation of long-term synaptic depression"
##      "negative regulation of leukocyte chemotaxis"
##      "hormone biosynthetic process"
##      "positive regulation of mRNA binding"
##      "positive regulation of skeletal muscle tissue growth"
##      "regulation of ERK1 and ERK2 cascade"
##      "positive regulation of organelle organization"
##      "regulation of cyclase activity"
##      "negative regulation of locomotion"
##      "establishment of spindle orientation"
##      "positive regulation of small intestinal transit"
##      "pro-B cell differentiation"
##      "respiratory system process"
##      "regulation of gastric motility"
##      "maintenance of gastrointestinal epithelium"
##      "otic vesicle development"
##      "negative regulation of DNA repair"
##      "response to TNF agonist"
##      "positive regulation of DNA N-glycosylase activity"
##      "positive regulation of cysteine-type endopeptidase activity involved in execution"
##      "detection of visible light"
##      "neurogenesis"
##      "heterochromatin organization"
##      "protein localization to postsynaptic membrane"
##      "metanephric mesenchyme morphogenesis"
##      "regulation of type I interferon production"
##      "histone H3-K9 methylation"
##      "positive regulation of hematopoietic stem cell migration"
##      "retrograde neuronal dense core vesicle transport"
##      "ubiquitin-dependent SMAD protein catabolic process"
##      "positive regulation of lymphocyte proliferation"
##      "negative regulation of cartilage development"
##      "negative regulation of type I interferon-mediated signaling pathway"
##      "positive regulation of synapse structural plasticity"
##      "positive regulation of synaptic vesicle clustering"
##      "protein kinase A signaling"
##      "regulation of pathway-restricted SMAD protein phosphorylation"
##      "positive regulation of protein localization to plasma membrane"
##      "sexual reproduction"
##      "acid secretion"
##      "organelle transport along microtubule"
##      "proteasomal ubiquitin-independent protein catabolic process"
##      "negative regulation of interleukin-1-mediated signaling pathway"
##      "caveola assembly"

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## "oligosaccharide metabolic process"
## "squamous basal epithelial stem cell differentiation involved in prostate gland ac
## "leukocyte activation"
## "neutrophil apoptotic process"
## "positive regulation of epidermis development"
## "negative regulation of blood vessel endothelial cell proliferation involved in sp
## "histone H3-Y41 phosphorylation"
## "regulation of osteoblast proliferation"
## "bone remodeling"
## "adenylate cyclase-activating adrenergic receptor signaling pathway"
## "posttranscriptional tethering of RNA polymerase II gene DNA at nuclear periphery"
## "positive regulation of phosphorylation"
## "negative regulation of mRNA 3'-end processing"
## "lipoprotein metabolic process"
## "chromatin silencing at rDNA"
## "cardiac ventricle morphogenesis"
## "regulation of striated muscle contraction"
## "calcium ion regulated exocytosis"
## "membrane assembly"
## "positive regulation of chemokine secretion"
## "positive regulation of glucagon secretion"
## "negative regulation of double-strand break repair via homologous recombination"
## "cardiac neural crest cell migration involved in outflow tract morphogenesis"
## "cAMP metabolic process"
## "iron ion import"
## "negative regulation of fatty acid beta-oxidation"
## "post-embryonic body morphogenesis"
## "lamellipodium morphogenesis"
## "regulation of parathyroid hormone secretion"
## "notochord development"
## "calcium-mediated signaling using extracellular calcium source"
## "smooth muscle tissue development"
## "progesterone biosynthetic process"
## "peptidyl-serine ADP-ribosylation"
## "maintenance of transcriptional fidelity during DNA-templated transcription elonga
## "negative regulation of actin filament bundle assembly"
## "positive regulation of somatostatin secretion"
## "positive regulation of circadian sleep/wake cycle, sleep"
## "negative regulation of low-density lipoprotein particle receptor catabolic proces
## "filopodium assembly"
## "histone H3-K4 demethylation"
## "positive regulation of axon extension involved in axon guidance"
## "positive regulation of female receptivity"
## "regulation of GTPase activity"
## "cellular macromolecule biosynthetic process"
## "programmed necrotic cell death"
## "olfactory bulb interneuron development"
## "axis elongation involved in somitogenesis"
## "protein K29-linked ubiquitination"
## "positive regulation of phagocytosis"
## "maintenance of protein location in nucleus"
## "regulation of lymphocyte differentiation"
## "pulmonary artery morphogenesis"
## "cellular response to Thyroglobulin triiodothyronine"

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##      "peptidyl-lysine hydroxylation"
##      "inner cell mass cell fate commitment"
##      "protein localization to cytoskeleton"
##      "positive regulation of gastrulation"
##      "viral budding via host ESCRT complex"
##      "cellular response to peptide"
##      "hindgut morphogenesis"
##      "3'-UTR-mediated mRNA destabilization"
##      "regulation of muscle cell differentiation"
##      "establishment or maintenance of cell polarity"
##      "regulation of definitive erythrocyte differentiation"
##      "positive regulation of gamma-aminobutyric acid secretion"
##      "regulation of transcription from RNA polymerase II promoter in response to oxidat
##      "positive regulation of chondrocyte proliferation"
##      "cytokine production involved in inflammatory response"
##      "mitochondrion transport along microtubule"
##      "histamine secretion by mast cell"
##      "radial glial cell differentiation"
##      "orbitofrontal cortex development"
##      "forelimb morphogenesis"
##      "histone H4-K12 acetylation"
##      "adenylate cyclase-inhibiting adrenergic receptor signaling pathway"
##      "phospholipase C-activating adrenergic receptor signaling pathway"
##      "musculoskeletal movement, spinal reflex action"
##      "T cell receptor V(D)J recombination"
##      "cardiac muscle tissue growth involved in heart morphogenesis"
##      "tyrosine phosphorylation of STAT protein"
##      "cell-substrate adhesion"
##      "cell motility"
##      "positive regulation of protein monoubiquitination"
##      "negative regulation of growth"
##      "negative regulation of protein transport"
##      "protein localization to basolateral plasma membrane"
##      "wound healing, spreading of epidermal cells"
##      "extracellular matrix-cell signaling"
##      "multicellular organismal water homeostasis"
##      "spindle assembly involved in meiosis"
##      "negative regulation of DNA-templated transcription, elongation"
##      "regulation of glucosylceramidase activity"
##      "neural tube development"
##      "protein sulfation"
##      "regulation of attachment of spindle microtubules to kinetochore"
##      "regulation of DNA recombination"
##      "regulation of branching involved in salivary gland morphogenesis by mesenchymal-e
##      "neutrophil mediated killing of gram-negative bacterium"
##      "developmental pigmentation"
##      "negative regulation of phagocytosis"
##      "positive regulation of timing of catagen"
##      "negative regulation of growth hormone secretion"
##      "regulation of presynaptic cytosolic calcium ion concentration"
##      "keratan sulfate catabolic process"
##      "regulation of cellular ketone metabolic process by negative regulation of transcr
##      "positive regulation of leukocyte adhesion to vascular endothelial cell"
##      "hepatocyte apoptotic process"

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## "negative regulation of cholesterol storage"
## "regulation of metabolic process"
## "negative regulation of membrane tubulation"
## "blastocyst growth"
## "positive regulation of autophagy"
## "regulation of saliva secretion"
## "regulation of histone H3-K4 methylation"
## "response to UV"
## "positive regulation of base-excision repair"
## "renin secretion into blood stream"
## "negative regulation of striated muscle tissue development"
## "regulation of T cell migration"
## "regulation of cell communication by electrical coupling involved in cardiac condu
## "bicellular tight junction assembly"
## "ruffle assembly"
## "heparin biosynthetic process"
## "piRNA metabolic process"
## "apical junction assembly"
## "negative regulation of cytolysis"
## "negative regulation of osteoclast development"
## "negative regulation of calcineurin-NFAT signaling cascade"
## "positive regulation of polynucleotide adenylyltransferase activity"
## "histone H3-K9 trimethylation"
## "forebrain astrocyte development"
## "corpus callosum morphogenesis"
## "negative regulation of interleukin-1 beta secretion"
## "regulation of oligodendrocyte progenitor proliferation"
## "intracellular mRNA localization"
## "mitotic cell cycle phase transition"
## "phospholipase C-activating serotonin receptor signaling pathway"
## "frontal suture morphogenesis"
## "male mating behavior"
## "lung epithelium development"
## "cellular response to lithium ion"
## "prostate gland growth"
## "gamma-tubulin complex localization"
## "positive regulation of mitochondrial outer membrane permeabilization involved in
## "triglyceride catabolic process"
## "regulation of neuron differentiation"
## "somite specification"
## "histone H3-T6 phosphorylation"
## "cross-receptor inhibition within G protein-coupled receptor heterodimer"
## "negative regulation of synaptic transmission"
## "positive regulation of calcium ion import across plasma membrane"
## "blastocyst formation"
## "positive regulation of cysteine-type endopeptidase activity"
## "spindle assembly involved in female meiosis I"
## "adherens junction assembly"
## "endocytic recycling"
## "head development"
## "negative regulation of Wnt protein secretion"
## "cortical cytoskeleton organization"
## "modulation of excitatory postsynaptic potential"
## "negative regulation of endothelial cell migration"

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```

## "animal organ formation"
## "positive regulation of adenylate cyclase activity"
## "regulation of DNA replication"
## "regulation of protein localization to centrosome"
## "cellular response to histamine"
## "regulation of single stranded viral RNA replication via double stranded DNA inter
## "positive regulation of cell adhesion molecule production"
## "positive regulation of activation of Janus kinase activity"
## "clustering of voltage-gated sodium channels"
## "regulation of chronic inflammatory response"
## "endocardial cushion to mesenchymal transition involved in heart valve formation"
## "protein localization to chromosome"
## "positive regulation of mitotic metaphase/anaphase transition"
## "histone H2A monoubiquitination"
## "regulation of short-term neuronal synaptic plasticity"
## "bone marrow development"
## "negative regulation of circadian sleep/wake cycle, sleep"
## "telomeric D-loop disassembly"
## "negative regulation by host of symbiont molecular function"
## "mammary gland epithelium development"
## "optic nerve morphogenesis"
## "prostate gland epithelium morphogenesis"
## "negative regulation of centrosome duplication"
## "neurotransmitter receptor internalization"
## "keratinocyte migration"
## "positive regulation of cap-independent translational initiation"
## "uropod organization"
## "regulation of mast cell activation"
## "establishment of spindle localization"
## "minus-end-directed vesicle transport along microtubule"
## "heparan sulfate proteoglycan biosynthetic process, enzymatic modification"
## "positive regulation of keratinocyte migration"
## "negative regulation of transposition"
## "neural plate axis specification"
## "positive regulation of DNA replication"
## "negative regulation of ATP biosynthetic process"
## "substrate adhesion-dependent cell spreading"
## "regulation of carbohydrate utilization"
## "cellular component maintenance"
## "decidualization"
## "regulation of translation at synapse, modulating synaptic transmission"
## "regulation of phenotypic switching"
## "positive regulation of I-kappaB phosphorylation"
## "positive regulation of cholangiocyte proliferation"
## "negative regulation of cholangiocyte apoptotic process"
## "positive regulation of granulosa cell proliferation"
## "positive regulation of skeletal muscle hypertrophy"
## "negative regulation of iodide transmembrane transport"
## "positive regulation of cytoplasmic translational initiation"
## "regulation of nephron tubule epithelial cell differentiation"
## "negative regulation of long-term synaptic depression"
## "positive regulation of alkaline phosphatase activity"
## "double-strand break repair via break-induced replication"
## "mitotic chromosome condensation"

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## "positive regulation of glial cell-derived neurotrophic factor secretion"
## "regulation of spontaneous synaptic transmission"
## "positive regulation of astrocyte activation"
## "blood vessel morphogenesis"
## "corpus callosum development"
## "regulation of protein export from nucleus"
## "acrosome reaction"
## "negative regulation of muscle cell differentiation"
## "cardiac epithelial to mesenchymal transition"
## "mRNA destabilization"
## "lens fiber cell apoptotic process"
## "histamine secretion"
## "paracrine signaling"
## "neuron projection morphogenesis"
## "regulation of lipid catabolic process"
## "acute-phase response"
## "protein monoubiquitination"
## "negative regulation of lipid biosynthetic process"
## "positive regulation of lamellipodium morphogenesis"
## "microglia development"
## "fat cell differentiation"
## "positive regulation of cell activation"
## "neuronal signal transduction"
## "negative regulation of myoblast fusion"
## "digestive system development"
## "glial cell differentiation"
## "regulation of blood vessel endothelial cell migration"
## "epithelial fluid transport"
## "prostate epithelial cord arborization involved in prostate glandular acinus morphogenesis"
## "positive regulation of oocyte maturation"
## "auditory behavior"
## "photoperiodism"
## "interleukin-1 beta production"
## "B cell homeostasis"
## "actin nucleation"
## "positive regulation of long-term synaptic potentiation"
## "vascular smooth muscle cell development"
## "negative regulation of protein phosphorylation"
## "engulfment of apoptotic cell"
## "regulation of CD40 signaling pathway"
## "negative regulation of C-C chemokine binding"
## "gliogenesis"
## "regulation of interleukin-6 biosynthetic process"
## "positive regulation of attachment of spindle microtubules to kinetochore"
## "membrane bending"
## "positive regulation of single strand break repair"
## "regulation of cell differentiation"
## "collateral sprouting in absence of injury"
## "roof of mouth development"
## "positive regulation of mitotic cytokinetic process"
## "positive regulation of cell migration by vascular endothelial growth factor signaling pathway"
## "hyperosmotic response"
## "interleukin-21-mediated signaling pathway"
## "regulation of muscle contraction"

```


"regulation of epidermal cell division"
 ## "negative regulation of acute inflammatory response"
 ## "regulation of protein localization"
 ## "regulation of skeletal muscle fiber development"
 ## "immunological synapse formation"
 ## "response to activity"
 ## "positive regulation of cellular protein localization"
 ## "positive regulation of telomere maintenance"
 ## "reproduction"
 ## "positive regulation of skeletal muscle tissue development"
 ## "placenta blood vessel development"
 ## "synaptic vesicle to endosome fusion"
 ## "negative regulation of axon extension involved in axon guidance"
 ## "positive regulation of interleukin-5 secretion"
 ## "histone exchange"
 ## "synapse maturation"
 ## "regulation of telomerase activity"
 ## "muscle cell differentiation"
 ## "positive regulation of heart contraction"
 ## "double-strand break repair via alternative nonhomologous end joining"
 ## "lateral sprouting involved in mammary gland duct morphogenesis"
 ## "cerebellar cortex formation"
 ## "positive regulation of chromatin binding"
 ## "paraxial mesoderm formation"
 ## "positive regulation of axonogenesis"
 ## "regulation of centromeric sister chromatid cohesion"
 ## "positive regulation of heart rate by epinephrine"
 ## "negative regulation of sodium:proton antiporter activity"
 ## "translation"
 ## "dopaminergic neuron differentiation"
 ## "negative regulation of execution phase of apoptosis"
 ## "humoral immune response mediated by circulating immunoglobulin"
 ## "positive regulation of osteoclast differentiation"
 ## "detection of mechanical stimulus"
 ## "activation of cysteine-type endopeptidase activity"
 ## "semaphorin-plexin signaling pathway involved in axon guidance"
 ## "nuclear pore distribution"
 ## "formation of anatomical boundary"
 ## "negative regulation of vascular smooth muscle cell differentiation"
 ## "negative regulation of fibroblast apoptotic process"
 ## "regulation of endothelial tube morphogenesis"
 ## "plasma membrane organization"
 ## "male genitalia morphogenesis"
 ## "inflammatory response to antigenic stimulus"
 ## "axon midline choice point recognition"
 ## "positive regulation of wound healing, spreading of epidermal cells"
 ## "regulation of renal output by angiotensin"
 ## "positive regulation of hepatocyte proliferation"
 ## "epidermal cell fate specification"
 ## "inositol trisphosphate biosynthetic process"
 ## "netrin-activated signaling pathway"
 ## "embryonic morphogenesis"
 ## "endothelial tube morphogenesis"
 ## "natural killer cell activation"

```

## "positive regulation of chromatin silencing"
## "psychomotor behavior"
## "positive regulation of NAD(P)H oxidase activity"
## "negative regulation of transcription elongation from RNA polymerase II promoter"
## "cellular response to insulin-like growth factor stimulus"
## "response to bacterium"
## "positive regulation of circadian sleep/wake cycle, REM sleep"
## "negative regulation of blood vessel diameter"
## "neutrophil homeostasis"
## "establishment of cell polarity involved in ameboidal cell migration"
## "neurotrophin TRK receptor signaling pathway"
## "generation of ovulation cycle rhythm"
## "response to DNA damage checkpoint signaling"
## "receptor-mediated endocytosis involved in cholesterol transport"
## "dentate gyrus development"
## "positive regulation of protein homooligomerization"
## "regulation of DNA binding"
## "retinal blood vessel morphogenesis"
## "positive regulation of protein acetylation"
## "secretion by cell"
## "positive regulation of peptide secretion"
## "cellular response to norepinephrine stimulus"
## "mammary gland development"
## "histone H4 acetylation"
## "positive regulation of alpha-beta T cell differentiation"
## "cellular response to purine-containing compound"
## "positive regulation of cell death"
## "cell volume homeostasis"
## "actin filament organization"
## "negative regulation of tissue remodeling"
## "cell-cell junction maintenance"
## "uterine smooth muscle contraction"
## "positive regulation of L-lysine import across plasma membrane"
## "positive regulation of L-arginine import across plasma membrane"
## "regulation of DNA-templated transcription in response to stress"
## "cell cycle phase transition"
## "positive regulation of DNA damage response, signal transduction by p53 class medi
## "cap-dependent translational initiation"
## "positive regulation of fatty acid beta-oxidation"
## "regulation of RNA export from nucleus"
## "chromosome separation"
## "positive regulation of endothelial cell chemotaxis to fibroblast growth factor"
## "posterior midgut development"
## "positive regulation of signal transduction"
## "exocrine pancreas development"
## "positive regulation of protein dephosphorylation"
## "negative regulation of glomerular filtration"
## "regulation of DNA-dependent DNA replication initiation"
## "positive regulation of endoplasmic reticulum stress-induced intrinsic apoptotic s
## "negative regulation of autophagy"
## "negative regulation of interleukin-2 biosynthetic process"
## "cellular response to low-density lipoprotein particle stimulus"
## "positive regulation of nucleic acid-templated transcription"
## "regulation of MAPK cascade"

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##      "wound healing, spreading of cells"
##      "regulation of mitotic cell cycle spindle assembly checkpoint"
##      "positive regulation of synaptic plasticity"
##      "transposition, RNA-mediated"
##      "synaptic transmission, GABAergic"
##      "left/right axis specification"
##      "negative regulation of type B pancreatic cell development"
##      "positive regulation of cellular senescence"
##      "MyD88-independent toll-like receptor signaling pathway"
##      "chromatin assembly or disassembly"
##      "astrocyte development"
##      "positive regulation of T cell apoptotic process"
##      "response to muscle activity involved in regulation of muscle adaptation"
##      "N-acetylglucosamine metabolic process"
##      "bronchus morphogenesis"
##      "lens fiber cell development"
##      "negative regulation of fibrinolysis"
##      "positive regulation of NAD+ ADP-ribosyltransferase activity"
##      "cardiac muscle cell development"
##      "DNA-dependent DNA replication"
##      "galanin-activated signaling pathway"
##      "microtubule sliding"
##      "cellular response to mineralocorticoid stimulus"
##      "negative regulation of non-motile cilium assembly"
##      "regulation of cell-substrate adhesion"
##      "canonical Wnt signaling pathway involved in positive regulation of epithelial to m
##      "cellular response to hydroperoxide"
##      "establishment of RNA localization to telomere"
##      "establishment of protein-containing complex localization to telomere"
##      "positive regulation of telomerase catalytic core complex assembly"
##      "cellular response to chemokine"
##      "positive regulation of heparan sulfate proteoglycan biosynthetic process"
##      "positive regulation of adipose tissue development"
##      "positive regulation of glucose import"
##      "paranodal junction assembly"
##      "positive regulation of metanephric glomerulus development"
##      "response to peptidoglycan"
##      "limb bud formation"
##      "ductus arteriosus closure"
##      "positive regulation of inhibitory postsynaptic potential"
##      "negative regulation of interferon-gamma production"
##      "positive regulation of low-density lipoprotein particle clearance"
##      "positive regulation of receptor-mediated endocytosis involved in cholesterol trans
##      "regulation of extracellular matrix disassembly"
##      "response to amino acid starvation"
##      "regulation of phagocytosis"
##      "extracellular structure organization"
##      "epicardium morphogenesis"
##      "megakaryocyte differentiation"
##      "mammary gland branching involved in thelarche"
##      "regulation of tumor necrosis factor-mediated signaling pathway"
##      "negative regulation of glycogen (starch) synthase activity"
##      "response to potassium ion"
##      "response to acrylamide"

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## "circadian regulation of translation"
## "regulation of myoblast differentiation"
## "positive regulation of interleukin-1 secretion"
## "negative regulation of smooth muscle cell differentiation"
## "negative regulation of endocytosis"
## "spinal cord development"
## "positive regulation of attachment of mitotic spindle microtubules to kinetochore"
## "positive regulation of protein glycosylation"
## "interleukin-27-mediated signaling pathway"
## "establishment of mitotic spindle localization"
## "negative regulation of potassium ion transport"
## "epithelial cell migration"
## "regulation of T cell proliferation"
## "positive regulation of voltage-gated chloride channel activity"
## "positive regulation of extracellular matrix constituent secretion"
## "cellular response to glucose starvation"
## "positive regulation of glycoprotein biosynthetic process"
## "negative regulation of chemokine-mediated signaling pathway"
## "SMAD protein complex assembly"
## "formation of radial glial scaffolds"
## "positive regulation of protein localization to kinetochore"
## "positive regulation of protein localization to membrane"
## "myoblast fusion"
## "low-density lipoprotein particle clearance"
## "positive regulation of blood pressure in other organism"
## "negative regulation of gastric emptying"
## "positive regulation of stomach fundus smooth muscle contraction"
## "snRNA export from nucleus"
## "heart looping"
## "layer formation in cerebral cortex"
## "positive regulation of translational fidelity"
## "TOR signaling"
## "regulation of mitotic centrosome separation"
## "angiotensin-mediated drinking behavior"
## "peptide hormone processing"
## "apolipoprotein A-I-mediated signaling pathway"
## "telomere tethering at nuclear periphery"
## "regulation of rhodopsin mediated signaling pathway"
## "mitochondrial DNA repair"
## "positive regulation of mRNA 3'-UTR binding"
## "negative regulation of receptor-mediated endocytosis"
## "regulation of synaptic transmission, glutamatergic"
## "positive regulation of I-kappaB kinase/NF-kappaB signaling"
## "macropinocytosis"
## "cellular response to carbon monoxide"
## "positive regulation of sodium:potassium-exchanging ATPase activity"
## "positive regulation of ATP-dependent microtubule motor activity, plus-end-directed"
## "fibroblast proliferation"
## "growth plate cartilage development"
## "presynaptic modulation of chemical synaptic transmission"
## "lipoprotein biosynthetic process"
## "regulation of neuronal synaptic plasticity"
## "maturation of SSU-rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA)"
## "prostaglandin biosynthetic process"

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## "negative regulation of DNA endoreduplication"
## "regulation of I-kappaB kinase/NF-kappaB signaling"
## "positive regulation of cytokine production involved in immune response"
## "positive regulation of acute inflammatory response to non-antigenic stimulus"
## "response to sterol depletion"
## "positive regulation of stress-activated protein kinase signaling cascade"
## "positive regulation of mast cell proliferation"
## "regulation of monocyte chemotaxis"
## "regulation of peptide hormone secretion"
## "hypomethylation of CpG island"
## "negative regulation of vasoconstriction"
## "positive regulation of tight junction disassembly"
## "positive regulation of glucose metabolic process"
## "establishment of centrosome localization"
## "positive regulation of Fc receptor mediated stimulatory signaling pathway"
## "dopamine transport"
## "embryonic neurocranium morphogenesis"
## "regulation of T cell activation"
## "response to gamma radiation"
## "cellular response to estradiol stimulus"
## "heart valve morphogenesis"
## "positive regulation of interleukin-13 production"
## "sulfation"
## "positive regulation of NIK/NF-kappaB signaling"
## "negative regulation of intracellular signal transduction"
## "negative regulation of glycolytic process"
## "embryonic digestive tract morphogenesis"
## "sympathetic ganglion development"
## "cardiocyte differentiation"
## "protein localization to microtubule plus-end"
## "positive regulation of lysosomal protein catabolic process"
## "histone deubiquitination"
## "heparan sulfate proteoglycan biosynthetic process, polysaccharide chain biosynthetic process"
## "negative regulation of respiratory burst involved in inflammatory response"
## "response to salt"
## "Fc receptor mediated inhibitory signaling pathway"
## "response to angiotensin"
## "histone H3-K9 modification"
## "protein-DNA complex assembly"
## "histone H3-K9 deacetylation"
## "anterograde synaptic vesicle transport"
## "transcription initiation from RNA polymerase I promoter"
## "positive regulation of G2/M transition of mitotic cell cycle"
## "positive regulation of deacetylase activity"
## "regulation of locomotion involved in locomotory behavior"
## "chondroitin sulfate catabolic process"
## "cytokinetic process"
## "positive regulation of transcription from RNA polymerase II promoter involved in transcription"
## "negative regulation of mast cell proliferation"
## "positive regulation of cap-dependent translational initiation"
## "regulation of lipopolysaccharide-mediated signaling pathway"
## "peptidyl-tyrosine dephosphorylation"
## "phosphate ion homeostasis"
## "hepatocyte proliferation"

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##      "mucus secretion"
##      "leptin-mediated signaling pathway"
##      "auditory receptor cell development"
##      "triglyceride metabolic process"
##      "unsaturated fatty acid biosynthetic process"
##      "connective tissue replacement involved in inflammatory response wound healing"
##      "positive regulation of cardiac muscle contraction"
##      "gonad development"
##      "negative regulation of ossification"
##      "cellular response to nerve growth factor stimulus"
##      "negative regulation of transcription by RNA polymerase I"
##      "regulation of membrane repolarization during atrial cardiac muscle cell action po
##      "regulation of membrane repolarization during cardiac muscle cell action potential
##      "negative regulation of cytokine production involved in inflammatory response"
##      "positive regulation of adaptive immune response"
##      "response to auditory stimulus"
##      "modification by virus of host mRNA processing"
##      "positive regulation of chemokine (C-C motif) ligand 5 production"
##      "cAMP biosynthetic process"
##      "cardiac muscle cell action potential involved in contraction"
##      "regulation of glucocorticoid metabolic process"
##      "signaling"
##      "aggressive behavior"
##      "negative regulation of B cell receptor signaling pathway"
##      "desmosome assembly"
##      "pronuclear fusion"
##      "regulation of Schwann cell differentiation"
##      "adrenomedullin receptor signaling pathway"
##      "DNA-templated viral transcription"
##      "small RNA loading onto RISC"
##      "cellular response to oxidised low-density lipoprotein particle stimulus"
##      "positive regulation of viral translation"
##      "positive regulation of polysome binding"
##      "T-helper 1 cell lineage commitment"
##      "histone modification"
##      "protection from non-homologous end joining at telomere"
##      "positive regulation of cartilage development"
##      "endochondral bone morphogenesis"
##      "regulation of lipid storage"
##      "bone morphogenesis"
##      "negative regulation of pathway-restricted SMAD protein phosphorylation"
##      "vitamin D metabolic process"
##      "regulation of blood vessel size"
##      "cerebral cortex development"
##      "positive regulation of toll-like receptor 4 signaling pathway"
##      "regulation of cytoplasmic translation"
##      "paraxial mesoderm morphogenesis"
##      "positive regulation of cell growth involved in cardiac muscle cell development"
##      "negative regulation of epithelial cell differentiation"
##      "negative regulation of sprouting angiogenesis"
##      "response to dexamethasone"
##      "acrosome assembly"
##      "positive regulation of protein kinase C signaling"
##      "reduction of food intake in response to dietary excess"

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## "positive regulation of skeletal muscle tissue regeneration"
## "positive regulation of NK T cell differentiation"
## "centrosome duplication"
## "fat pad development"
## "photoreceptor cell outer segment organization"
## "negative regulation of macrophage chemotaxis"
## "saliva secretion"
## "chondroblast differentiation"
## "regulation of bile acid biosynthetic process"
## "mucosal immune response"
## "water transport"
## "cortical microtubule organization"
## "spindle checkpoint"
## "exploration behavior"
## "mammary gland branching involved in pregnancy"
## "positive regulation of oligodendrocyte progenitor proliferation"
## "negative regulation of single stranded viral RNA replication via double stranded RNA"
## "positive regulation of pri-miRNA transcription by RNA polymerase II"
## "regulation of gene expression by genetic imprinting"
## "DNA demethylation"
## "regulation of mRNA stability involved in response to oxidative stress"
## "snoRNA 3'-end processing"
## "angiotensin-activated signaling pathway"
## "cartilage condensation"
## "collagen-activated tyrosine kinase receptor signaling pathway"
## "negative regulation of skeletal muscle cell differentiation"
## "central nervous system projection neuron axonogenesis"
## "ectopic germ cell programmed cell death"
## "regulation of respiratory gaseous exchange by neurological system process"
## "positive regulation of cell proliferation involved in heart valve morphogenesis"
## "female gonad morphogenesis"
## "negative regulation of cardiac myofibril assembly"
## "cholesterol import"
## "heart trabecula morphogenesis"
## "negative regulation of ER-associated ubiquitin-dependent protein catabolic process"
## "regulation of ATPase activity"
## "positive regulation of apoptotic cell clearance"
## "artery development"
## "endocardial cushion fusion"
## "positive regulation of growth factor dependent skeletal muscle satellite cell proliferation"
## "positive regulation of peptidyl-serine phosphorylation"
## "regulation of defense response to virus by host"
## "telomere maintenance via recombination"
## "positive regulation of odontogenesis"
## "mRNA transport"
## "positive regulation of peptide hormone secretion"
## "replication fork protection"
## "regulation of endodeoxyribonuclease activity"
## "positive regulation of small intestine smooth muscle contraction"
## "RNA phosphodiester bond hydrolysis"
## "startle response"
## "positive regulation of norepinephrine secretion"
## "positive regulation of signal transduction by p53 class mediator"
## "genetic imprinting"

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##      "tRNA 5'-leader removal"
##      "microtubule depolymerization"
##      "positive regulation of interferon-gamma secretion"
##      "histone-serine phosphorylation"
##      "neuron projection retraction"
##      "cerebral cortex GABAergic interneuron migration"
##      "receptor internalization"
##      "positive regulation of acute inflammatory response"
##      "positive regulation of heterotypic cell-cell adhesion"
##      "embryonic camera-type eye morphogenesis"
##      "T cell migration"
##      "nuclear-transcribed mRNA catabolic process, exonucleolytic"
##      "peptidyl-lysine monomethylation"
##      "negative regulation of urine volume"
##      "positive regulation of insulin-like growth factor receptor signaling pathway"
##      "ribosomal large subunit assembly"
##      "neurological system process involved in regulation of systemic arterial blood pressure"
##      "Fc receptor mediated stimulatory signaling pathway"
##      "regulation of vascular smooth muscle contraction"
##      "gene silencing by RNA"
##      "negative regulation of oligodendrocyte differentiation"
##      "negative regulation of cytokine secretion"
##      "proepicardium development"
##      "germ cell development"
##      "positive regulation of podosome assembly"
##      "positive regulation of endothelial cell chemotaxis by VEGF-activated vascular endothelium"
##      "regulation of protein metabolic process"
##      "lens fiber cell differentiation"
##      "positive regulation of sodium-dependent phosphate transport"
##      "negative regulation of protein homooligomerization"
##      "organ induction"
##      "glutamate secretion"
##      "detection of abiotic stimulus"
##      "regulation of nucleocytoplasmic transport"
##      "mast cell differentiation"
##      "epithelial tube branching involved in lung morphogenesis"
##      "response to muramyl dipeptide"
##      "positive regulation of telomerase RNA reverse transcriptase activity"
##      "secretory columnar luminal epithelial cell differentiation involved in prostate gland morphogenesis"
##      "regulation of interleukin-1 beta production"
##      "regulation of multicellular organism growth"
##      "positive regulation of protein localization to synapse"
##      "extracellular negative regulation of signal transduction"
##      "negative regulation of mast cell activation"
##      "positive regulation of biomineral tissue development"
##      "keratinocyte proliferation"
##      "viral penetration into host nucleus"
##      "fear response"
##      "granulocyte chemotaxis"
##      "gamete generation"
##      "cellular response to hydroxyurea"
##      "regulation of DNA replication origin binding"
##      "immune response-regulating cell surface receptor signaling pathway"
##      "B cell chemotaxis"

```



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##      "intraciliary transport"
##      "positive regulation of ubiquitin protein ligase activity"
##      "neuron cellular homeostasis"
##      "regulation of chromatin organization"
##      "negative regulation of endoplasmic reticulum unfolded protein response"
##      "cell adhesion mediated by integrin"
##      "inhibitory postsynaptic potential"
##      "viral RNA genome replication"
##      "endothelin receptor signaling pathway"
##      "embryonic brain development"
##      "membranous septum morphogenesis"
##      "left ventricular cardiac muscle tissue morphogenesis"
##      "cellular protein-containing complex localization"
##      "protein localization to spindle microtubule"
##      "RNA localization to chromatin"
##      "negative regulation of type I interferon production"
##      "positive regulation of response to cytokine stimulus"
##      "peptidyl-lysine dimethylation"
##      "t-circle formation"
##      "positive regulation of organ growth"
##      "nervous system process"
##      "cranial skeletal system development"
##      "negative regulation of intrinsic apoptotic signaling pathway in response to osmot."
##      "regulation of glycolytic process by negative regulation of transcription from RNA"
##      "regulation of fatty acid transport"
##      "negative regulation of type B pancreatic cell apoptotic process"
##      "positive regulation of chemokine production"
##      "odontogenesis"
##      "negative regulation of vascular permeability"
##      "positive regulation of centriole replication"
##      "histone monoubiquitination"
##      "negative regulation of histone H3-K27 methylation"
##      "negative regulation of platelet activation"
##      "positive regulation of cytokine secretion"
##      "cellular response to lipoteichoic acid"
##      "bile acid secretion"
##      "cellular response to mechanical stimulus"
##      "response to other organism"
##      "positive regulation of mitochondrial depolarization"
##      "regulation of centriole-centriole cohesion"
##      "microtubule anchoring at centrosome"
##      "negative regulation of calcium ion-dependent exocytosis"
##      "response to laminar fluid shear stress"
##      "vascular endothelial growth factor signaling pathway"
##      "negative regulation of actin filament severing"
##      "lung lobe morphogenesis"
##      "aorta morphogenesis"
##      NA
##      "negative regulation of glycogen biosynthetic process"
##      "negative regulation of lung blood pressure"
##      "negative regulation of telomere capping"
##      "nuclear speck organization"
##      "pointed-end actin filament capping"
##      "positive regulation of transcription from RNA polymerase II promoter in response

```

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## "exocytic insertion of neurotransmitter receptor to postsynaptic membrane"
## "chylomicron remodeling"
## "snRNA processing"
## "regulation of histone modification"
## "neuron fate specification"
## "cellular response to steroid hormone stimulus"
## "regulation of interleukin-1 production"
## "cellular pigmentation"
## "response to amyloid-beta"
## "snoRNA splicing"
## "B cell proliferation involved in immune response"
## "regulation of fatty acid metabolic process"
## "negative regulation of phospholipase A2 activity"
## "cellular response to hyperoxia"
## "lipoprotein catabolic process"
## "positive regulation of protein metabolic process"
## "synaptic growth at neuromuscular junction"
## "negative regulation of dopaminergic neuron differentiation"
## "positive regulation of transforming growth factor beta3 production"
## "cellular response to thyroid hormone stimulus"
## "eye development"
## "heteroduplex formation"
## "negative regulation of G0 to G1 transition"
## "interleukin-12 secretion"
## "negative regulation of cell migration"
## "regulation of extracellular matrix organization"
## "regulation of cysteine-type endopeptidase activity involved in apoptotic process"
## "Golgi vesicle transport"
## "negative regulation of androgen receptor signaling pathway"
## "histone H2A ubiquitination"
## "negative regulation of tumor necrosis factor biosynthetic process"
## "norepinephrine-epinephrine vasoconstriction involved in regulation of systemic ar
## "positive regulation of homotypic cell-cell adhesion"
## "negative regulation of interleukin-5 production"
## "regulation of dephosphorylation"
## "regulation of RNA stability"
## "negative regulation of vascular endothelial growth factor receptor signaling pathw
## "transepithelial chloride transport"
## "negative regulation of interleukin-6 biosynthetic process"
## "clathrin coat disassembly"
## "transcription, RNA-templated"
## "positive regulation of canonical Wnt signaling pathway"
## "actomyosin contractile ring assembly"
## "positive regulation of CD4-positive, alpha-beta T cell proliferation"
## "lens development in camera-type eye"
## "activation of protein kinase C activity"
## "positive regulation of sister chromatid cohesion"
## "CD4-positive, CD25-positive, alpha-beta regulatory T cell lineage commitment"
## "positive regulation of peripheral T cell tolerance induction"
## "positive regulation of CD4-positive, CD25-positive, alpha-beta regulatory T cell c
## "negative regulation of interferon-gamma biosynthetic process"
## "mitochondrial depolarization"
## "signal transduction by p53 class mediator"
## "regulation of cell growth by extracellular stimulus"

```

```

## "endodermal cell fate specification"
## "transitional one stage B cell differentiation"
## "histone H2B ubiquitination"
## "epithelial cell proliferation involved in mammary gland duct elongation"
## "positive regulation of actin filament binding"
## "negative regulation of acute inflammatory response to antigenic stimulus"
## "90S preribosome assembly"
## "regulation of cellular response to stress"
## "anterograde axonal protein transport"
## "bundle of His cell-Purkinje myocyte adhesion involved in cell communication"
## "regulation of cytokine biosynthetic process"
## "protein localization to centrosome"
## "anterior/posterior axis specification, embryo"
## "negative regulation of toll-like receptor 2 signaling pathway"
## "response to light stimulus"
## "regulation of embryonic development"
## "protein O-linked glycosylation"
## "maintenance of translational fidelity"
## "protein localization to nuclear inner membrane"
## "negative regulation of myeloid cell differentiation"
## "regulation of JAK-STAT cascade"
## "osteoclast differentiation"
## "ventricular cardiac muscle cell development"
## "positive regulation of alpha-beta T cell proliferation"
## "interleukin-8-mediated signaling pathway"
## "response to cholecystokinin"
## "SH2 domain-mediated complex assembly"
## "cellular response to endothelin"
## "nuclear transport"
## "hematopoietic stem cell proliferation"
## "membrane invagination"
## "myoblast migration involved in skeletal muscle regeneration"
## "positive regulation of transcription from RNA polymerase II promoter in response"
## "cholecystokinin signaling pathway"
## "positive regulation of multicellular organism growth"
## "positive regulation of type I interferon-mediated signaling pathway"
## "thymocyte migration"
## "cellular response to 1-oleoyl-sn-glycerol 3-phosphate"
## "negative regulation of intracellular estrogen receptor signaling pathway"
## "cell communication"
## "negative regulation of peptidyl-threonine phosphorylation"
## "localization within membrane"
## "positive regulation of natural killer cell chemotaxis"
## "mesenchymal cell differentiation"
## "myeloid dendritic cell chemotaxis"
## "membrane organization"
## "positive regulation of growth hormone receptor signaling pathway"
## "negative regulation of amyloid-beta clearance"
## "fertilization"
## "calcium ion transport into cytosol"
## "negative regulation of hormone secretion"
## "positive regulation of phospholipase C-activating G protein-coupled receptor signa"
## "positive regulation of cardiac vascular smooth muscle cell differentiation"
## "signal transduction involved in mitotic G1 DNA damage checkpoint"

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```

## "Golgi ribbon formation"
## "negative regulation of response to gamma radiation"
## "ribosome assembly"
## "positive regulation of fever generation"
## "positive regulation of collateral sprouting"
## "cellular protein metabolic process"
## "ribosomal large subunit export from nucleus"
## "negative regulation of cysteine-type endopeptidase activity"
## "postsynaptic membrane assembly"
## "cellular response to oxygen levels"
## "insulin-like growth factor receptor signaling pathway"
## "angiogenesis involved in coronary vascular morphogenesis"
## "positive regulation of histone methylation"
## "positive regulation of wound healing"
## "DNA replication, synthesis of RNA primer"
## "negative regulation of platelet aggregation"
## "JUN phosphorylation"
## "tRNA splicing, via endonucleolytic cleavage and ligation"
## "regulation of body fluid levels"
## "C-5 methylation of cytosine"
## "positive regulation of arachidonic acid secretion"
## "negative regulation of interleukin-23 production"
## "axon development"
## "neural crest formation"
## "regulation of synapse structure or activity"
## "regulation of branching involved in prostate gland morphogenesis"
## "trophoblast giant cell differentiation"
## "positive regulation of smooth muscle cell chemotaxis"
## "viral budding"
## "nucleotide-excision repair, DNA incision, 5'-to lesion"
## "positive regulation of SUMO transferase activity"
## "positive regulation of interleukin-5 production"
## "negative regulation of renal sodium excretion"
## "positive regulation of glucokinase activity"
## "negative regulation of chronic inflammatory response"
## "regulation of heart rate by cardiac conduction"
## "negative regulation of t-circle formation"
## "regulation of bone resorption"
## "synaptic vesicle fusion to presynaptic active zone membrane"
## "response to denervation involved in regulation of muscle adaptation"
## "dermatan sulfate biosynthetic process"
## "positive regulation of cellular pH reduction"
## "axonal fasciculation"
## "regulation of keratinocyte proliferation"
## "negative regulation of myotube differentiation"
## "positive regulation of ion transport"
## "positive regulation of T-helper 1 cell differentiation"
## "neuron projection regeneration"
## "establishment of epithelial cell apical/basal polarity"
## "regulation of B cell differentiation"
## "protein poly-ADP-ribosylation"
## "immunoglobulin production"
## "anaphase-promoting complex-dependent catabolic process"
## "microtubule nucleation by interphase microtubule organizing center"

```

"regulation of translation at presynapse, modulating synaptic transmission"
 ## "regulation of melanocyte differentiation"
 ## "branching involved in labyrinthine layer morphogenesis"
 ## "collagen metabolic process"
 ## "homeostasis of number of cells within a tissue"
 ## "mitotic G2 DNA damage checkpoint"
 ## "nephrogenic mesenchyme morphogenesis"
 ## "pericardium development"
 ## "synaptic vesicle uncoating"
 ## "nuclear-transcribed mRNA poly(A) tail shortening"
 ## "telencephalon development"
 ## "cellular response to temperature stimulus"
 ## "dendrite extension"
 ## "regulation of cell size"
 ## "macrophage activation"
 ## "detection of light stimulus involved in visual perception"
 ## "insulin receptor signaling pathway via phosphatidylinositol 3-kinase"
 ## "regulation of DNA damage checkpoint"
 ## "nucleotide-excision repair, preincision complex assembly"
 ## "synaptic vesicle budding from presynaptic endocytic zone membrane"
 ## "negative regulation of interleukin-4 production"
 ## "single stranded viral RNA replication via double stranded DNA intermediate"
 ## "regulation of histone H4-K16 acetylation"
 ## "positive regulation of cardiac muscle cell apoptotic process"
 ## "regulation of glutamate receptor signaling pathway"
 ## "regulation of calcium ion import across plasma membrane"
 ## "branching morphogenesis of a nerve"
 ## "positive regulation of protein processing in phagocytic vesicle"
 ## "centriole assembly"
 ## "receptor-mediated endocytosis"
 ## "negative regulation of synapse assembly"
 ## "atrioventricular valve formation"
 ## "immune system development"
 ## "Cdc42 protein signal transduction"
 ## "lymphocyte migration"
 ## "positive regulation of interleukin-1 beta secretion"
 ## "positive regulation of cellular biosynthetic process"
 ## "developmental process"
 ## "positive regulation of DNA-templated transcription, elongation"
 ## "response to nitric oxide"
 ## "nucleotide-excision repair, DNA incision"
 ## "positive regulation of protein polyubiquitination"
 ## "negative regulation of cell adhesion"
 ## "regulation of histone deacetylation"
 ## "positive regulation of peptidyl-serine phosphorylation of STAT protein"
 ## "chromosome segregation"
 ## "platelet dense granule organization"
 ## "myelin maintenance"
 ## "reciprocal meiotic recombination"
 ## "microvillus organization"
 ## "negative regulation of cortisol secretion"
 ## "intestinal epithelial cell migration"
 ## "plus-end-directed vesicle transport along microtubule"
 ## "positive regulation of core promoter binding"

```

## "mineralocorticoid receptor signaling pathway"
## "regulation of brown fat cell differentiation"
## "negative regulation of T-helper 17 cell differentiation"
## "negative regulation of endothelial cell proliferation"
## "replicative senescence"
## "establishment of chromosome localization"
## "positive regulation of extracellular exosome assembly"
## "positive regulation of intrinsic apoptotic signaling pathway"
## "nucleus organization"
## "establishment of meiotic spindle localization"
## "regulation of T cell anergy"
## "response to fibroblast growth factor"
## "gastric emptying"
## "response to yeast"
## "adaptive thermogenesis"
## "CD8-positive, gamma-delta intraepithelial T cell differentiation"
## "regulation of hair follicle development"
## "smoothened signaling pathway involved in dorsal/ventral neural tube patterning"
## "negative regulation of cholesterol efflux"
## "regulation of protein secretion"
## "negative regulation of bone resorption"
## "cellular response to L-glutamate"
## "maintenance of cell polarity"
## "neuron maturation"
## "positive regulation of integrin-mediated signaling pathway"
## "negative regulation of platelet-derived growth factor receptor-beta signaling pat
## "positive regulation of endodeoxyribonuclease activity"
## "negative regulation of appetite"
## "vasodilation"
## "regulation of isotype switching to IgG isotypes"
## "telomere capping"
## "positive regulation of production of miRNAs involved in gene silencing by miRNA"
## "positive regulation of amyloid-beta formation"
## "positive regulation of mitochondrial ATP synthesis coupled electron transport"
## "negative regulation of neuron projection development"
## "positive regulation of interferon-beta secretion"
## "positive regulation of neural precursor cell proliferation"
## "RNA polymerase I preinitiation complex assembly"
## "neuroepithelial cell differentiation"
## "commissural neuron axon guidance"
## "negative regulation of production of miRNAs involved in gene silencing by miRNA"
## "retina vasculature morphogenesis in camera-type eye"
## "negative regulation of histone H3-K9 dimethylation"
## "positive regulation of T-helper 2 cell cytokine production"
## "non-canonical Wnt signaling pathway via JNK cascade"
## "granulocyte differentiation"
## "positive regulation of 1-phosphatidylinositol-3-kinase activity"
## "positive regulation of TOR signaling"
## "cellular response to interleukin-3"
## "negative regulation of calcium ion transport"
## "embryonic heart tube morphogenesis"
## "vasculature development"
## "endothelial cell differentiation"
## "regulation of smooth muscle cell differentiation"

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## "locomotor rhythm"
## "positive regulation of cyclin-dependent protein serine/threonine kinase activity"
## "negative regulation of interleukin-8 secretion"
## "positive regulation of translation in response to endoplasmic reticulum stress"
## "female meiosis chromosome segregation"
## "positive regulation of epidermal cell differentiation"
## "positive regulation of dendrite extension"
## "negative regulation of wound healing"
## "RNA 3'-end processing"
## "sperm ejaculation"
## "negative regulation of voltage-gated calcium channel activity"
## "negative regulation of phospholipase C activity"
## "endothelial cell morphogenesis"
## "positive regulation of actin nucleation"
## "peptide hormone secretion"
## "histone H2B acetylation"
## "peptidyl-lysine propionylation"
## "peptidyl-lysine crotonylation"
## "peptidyl-lysine butyrylation"
## "positive regulation of follicle-stimulating hormone secretion"
## "positive regulation of large conductance calcium-activated potassium channel acti
## "negative regulation of microtubule depolymerization"
## "positive regulation of B cell receptor signaling pathway"
## "negative regulation of TOR signaling"
## "regulation of histone acetylation"
## "embryonic organ development"
## "regulation of protein import into nucleus"
## "motile cilium assembly"
## "bud elongation involved in lung branching"
## "positive regulation of toll-like receptor 3 signaling pathway"
## "positive regulation of brown fat cell differentiation"
## "epithelial cell development"
## "interleukin-1 beta secretion"
## "maintenance of centrosome location"
## "positive regulation of neuron migration"
## "heparan sulfate proteoglycan biosynthetic process"
## "B-1 B cell homeostasis"
## "negative regulation of astrocyte differentiation"
## "endocardial cell differentiation"
## "positive regulation of macrophage derived foam cell differentiation"
## "negative regulation of stem cell differentiation"
## "regulation of respiratory gaseous exchange"
## "negative regulation of T cell receptor signaling pathway"
## "positive regulation of feeding behavior"
## "positive regulation of myoblast fusion"
## "entrainment of circadian clock"
## "regulation of centrosome cycle"
## "regulation of RNA metabolic process"
## "negative regulation of phosphatase activity"
## "gene silencing"
## "negative regulation of calcium ion import"
## "multicellular organismal reproductive process"
## "regulation of corticosterone secretion"
## "negative regulation of cytokine biosynthetic process"

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##      "gland development"
##      "establishment or maintenance of actin cytoskeleton polarity"
##      "oligodendrocyte apoptotic process"
##      "positive regulation of phosphatidylinositol biosynthetic process"
##      "sterol metabolic process"
##      "nodal signaling pathway"
##      "generation of catalytic spliceosome for first transesterification step"
##      "positive regulation of platelet-derived growth factor receptor signaling pathway"
##      "positive regulation of immature T cell proliferation in thymus"
##      "negative regulation of gene expression, epigenetic"
##      "homeostatic process"
##      "positive regulation of intrinsic apoptotic signaling pathway in response to DNA d
##      "sebaceous gland development"
##      "primary ovarian follicle growth"
##      "negative regulation of B cell apoptotic process"
##      "regulation of modification of synaptic structure"
##      "regulation of caveolin-mediated endocytosis"
##      "positive regulation of RNA binding"
##      "triglyceride mobilization"
##      "negative regulation of luteinizing hormone secretion"
##      "T cell lineage commitment"
##      "DNA methylation involved in embryo development"
##      "chloride transmembrane transport"
##      "histone H4-K5 acetylation"
##      "histone H4-K8 acetylation"
##      "negative regulation of keratinocyte differentiation"
##      "intermediate filament cytoskeleton organization"
##      "labyrinthine layer development"
##      "negative regulation of transcription involved in G1/S transition of mitotic cell
##      "regulation of protein kinase B signaling"
##      "negative regulation of endoplasmic reticulum stress-induced eIF2 alpha phosphoryl
##      "positive regulation of ovarian follicle development"
##      "negative regulation of protein kinase activity by regulation of protein phosphory
##      "positive regulation of protein autophosphorylation"
##      "positive regulation of dopamine uptake involved in synaptic transmission"
##      "angiogenesis involved in wound healing"
##      "neuron projection extension"
##      "cellular response to glucocorticoid stimulus"
##      "response to molecule of bacterial origin"
##      "conditioned taste aversion"
##      "regulation of ruffle assembly"
##      "DNA unwinding involved in DNA replication"
##      "positive regulation of branching involved in ureteric bud morphogenesis"
##      "positive regulation of SMAD protein signal transduction"
##      "positive regulation of blood vessel endothelial cell proliferation involved in sp
##      "adrenal gland development"
##      "negative regulation of bone mineralization"
##      "establishment or maintenance of microtubule cytoskeleton polarity"
##      "T cell mediated immunity"
##      "immunoglobulin mediated immune response"
##      "cellular protein-containing complex assembly"
##      "organ growth"
##      "negative regulation of blood coagulation"
##      "negative regulation of DNA demethylation"

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## "positive regulation of cholesterol efflux"
## "cytoplasmic translational termination"
## "DNA damage checkpoint"
## "negative regulation of cell-cell adhesion"
## "oligodendrocyte differentiation"
## "negative regulation of neuroblast proliferation"
## "regulation of mast cell degranulation"
## "G1/S transition of mitotic cell cycle"
## "negative regulation of epithelial cell proliferation involved in prostate gland d
## "cellular response to retinoic acid"
## "DNA replication checkpoint"
## "sulfur compound metabolic process"
## "positive regulation of release of sequestered calcium ion into cytosol"
## "neuron migration"
## "intraciliary retrograde transport"
## "positive regulation of astrocyte differentiation"
## "carbohydrate biosynthetic process"
## "low-density lipoprotein particle remodeling"
## "multivesicular body assembly"
## "regulation of tubulin deacetylation"
## "negative regulation of osteoblast proliferation"
## "negative regulation of transposon integration"
## "neuron cell-cell adhesion"
## "neural precursor cell proliferation"
## "regulation of epithelial cell proliferation"
## "negative regulation of female receptivity"
## "peristalsis"
## "dendritic cell migration"
## "negative regulation of keratinocyte proliferation"
## "positive regulation of B cell proliferation"
## "3'-phosphoadenosine 5'-phosphosulfate metabolic process"
## "cellular senescence"
## "erythrocyte homeostasis"
## "positive regulation of endothelial cell chemotaxis"
## "regulation of epidermal growth factor-activated receptor activity"
## "ventricular cardiac muscle tissue morphogenesis"
## "negative regulation of protein catabolic process"
## "convergent extension involved in axis elongation"
## "regulation of calcium ion import"
## "negative regulation of toll-like receptor 4 signaling pathway"
## "middle ear morphogenesis"
## "positive regulation of tumor necrosis factor biosynthetic process"
## "voluntary musculoskeletal movement"
## "signal peptide processing"
## "skeletal system morphogenesis"
## "rescue of stalled ribosome"
## "metanephros development"
## "negative regulation of immunoglobulin production"
## "DNA integration"
## "positive regulation of extracellular matrix assembly"
## "oogenesis"
## "leukotriene signaling pathway"
## "ribosomal small subunit export from nucleus"
## "response to hepatocyte growth factor"

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## "negative regulation of myoblast differentiation"
## "neural crest cell differentiation"
## "response to singlet oxygen"
## "positive regulation of transcription from RNA polymerase II promoter involved in v
## "grooming behavior"
## "negative regulation of telomere maintenance via telomerase"
## "cellular response to glycine"
## "adenylate cyclase-inhibiting opioid receptor signaling pathway"
## "positive regulation of T cell proliferation"
## "regulation of feeding behavior"
## "single fertilization"
## "submandibular salivary gland formation"
## "negative regulation of wound healing, spreading of epidermal cells"
## "regulation of blood vessel diameter by renin-angiotensin"
## "negative regulation of viral transcription"
## "negative regulation of fibroblast growth factor receptor signaling pathway"
## "ribosomal small subunit assembly"
## "cellular response to forskolin"
## "negative regulation of adaptive immune response"
## "regulation of cell division"
## "regulation of transcription involved in cell fate commitment"
## "calcium ion-regulated exocytosis of neurotransmitter"
## "phototransduction, visible light"
## "proteoglycan biosynthetic process"
## "mating behavior"
## "meiotic recombination checkpoint"
## "intestinal epithelial cell differentiation"
## "positive regulation of receptor catabolic process"
## "negative regulation of TORC1 signaling"
## "regulation of AMPA receptor activity"
## "positive regulation of potassium ion transmembrane transport"
## "negative regulation of actin filament polymerization"
## "positive regulation of prostaglandin secretion"
## "regulation of respiratory burst"
## "regulation of lipid metabolic process"
## "protein polymerization"
## "positive regulation of cyclic-nucleotide phosphodiesterase activity"
## "spliceosomal tri-snRNP complex assembly"
## "positive regulation of cell-cell adhesion"
## "negative regulation of mitotic cell cycle"
## "multicellular organism growth"
## "miRNA transport"
## "positive regulation of circadian sleep/wake cycle, wakefulness"
## "negative regulation of hydrogen peroxide biosynthetic process"
## "regulation of fibroblast migration"
## "vitamin metabolic process"
## "parturition"
## "neuron fate determination"
## "positive regulation of prostaglandin-endoperoxide synthase activity"
## "positive regulation of macroautophagy"
## "endosome transport via multivesicular body sorting pathway"
## "negative regulation of feeding behavior"
## "positive regulation of myotube differentiation"
## "regulation of platelet aggregation"

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## "penile erection"
## "negative regulation of dopamine secretion"
## "regulation of axonogenesis"
## "lipid tube assembly"
## "regulation of membrane permeability"
## "evasion or tolerance of host defenses by virus"
## "positive regulation of histone H4-K20 methylation"
## "protein localization to nuclear envelope"
## "microtubule polymerization"
## "eye photoreceptor cell development"
## "centriole elongation"
## "trans-synaptic signaling by endocannabinoid, modulating synaptic transmission"
## "positive regulation of amyloid-beta clearance"
## "negative regulation of eating behavior"
## "regulation of somitogenesis"
## "cardiac muscle cell differentiation"
## "embryo development ending in birth or egg hatching"
## "pyroptosis"
## "positive regulation of execution phase of apoptosis"
## "synaptic transmission, dopaminergic"
## "positive regulation of histone H4-K16 acetylation"
## "negative regulation of GTPase activity"
## "negative regulation of systemic arterial blood pressure"
## "negative regulation of B cell proliferation"
## "regulation of Rac protein signal transduction"
## "regulation of ventricular cardiac muscle cell action potential"
## "regulation of Cdc42 protein signal transduction"
## "positive regulation of gluconeogenesis by positive regulation of transcription fr
## "extracellular matrix disassembly"
## "cellular zinc ion homeostasis"
## "positive regulation of luteinizing hormone secretion"
## "activation of cysteine-type endopeptidase activity involved in apoptotic signaling
## "skeletal muscle myosin thick filament assembly"
## "metaphase plate congression"
## "regulation of blood volume by renin-angiotensin"
## "positive regulation of BMP signaling pathway"
## "hair follicle morphogenesis"
## "regulation of T cell differentiation"
## "cellular response to vitamin D"
## "regulation of glucose transmembrane transport"
## "negative regulation of glial cell apoptotic process"
## "positive regulation of spindle assembly"
## "negative regulation of DNA replication"
## "positive regulation of T-helper 2 cell differentiation"
## "male gonad development"
## "cellular response to progesterone stimulus"
## "cilium assembly"
## "positive regulation of heat generation"
## "xenophagy"
## "positive regulation of smooth muscle cell apoptotic process"
## "body fluid secretion"
## "phospholipid catabolic process"
## "positive regulation of cell-cell adhesion mediated by integrin"
## "clathrin-dependent endocytosis"

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## "Golgi disassembly"
## "positive regulation blood vessel branching"
## "activation of Janus kinase activity"
## "activation of adenylate cyclase activity"
## "negative regulation of pri-miRNA transcription by RNA polymerase II"
## "optic nerve development"
## "regulation of telomere maintenance via telomerase"
## "RNA polymerase III preinitiation complex assembly"
## "calcium ion transport"
## "adult feeding behavior"
## "neuron remodeling"
## "response to leptin"
## "mitotic cytokinesis"
## "regulation of actin cytoskeleton reorganization"
## "negative regulation of interleukin-2 secretion"
## "mitotic G2/M transition checkpoint"
## "response to transforming growth factor beta"
## "positive regulation of nitric-oxide synthase activity"
## "negative regulation of transmission of nerve impulse"
## "negative regulation of signal transduction"
## "negative regulation of Notch signaling pathway"
## "acute inflammatory response to antigenic stimulus"
## "defense response to protozoan"
## "oxidative stress-induced premature senescence"
## "mRNA polyadenylation"
## "positive regulation of extracellular matrix disassembly"
## "regulation of protein binding"
## "positive regulation of defense response to virus by host"
## "negative regulation of serotonin secretion"
## "regulation of dendrite morphogenesis"
## "positive regulation of mRNA 3'-end processing"
## "adult behavior"
## "positive regulation of stem cell proliferation"
## "protein localization to cell surface"
## "positive regulation of interleukin-2 secretion"
## "keratan sulfate biosynthetic process"
## "positive regulation of Wnt signaling pathway, planar cell polarity pathway"
## "regulation of centromere complex assembly"
## "G protein-coupled receptor signaling pathway coupled to cGMP nucleotide second messenger"
## "negative regulation of innate immune response"
## "cleavage furrow formation"
## "gastrulation with mouth forming second"
## "stem cell population maintenance"
## "complement activation, alternative pathway"
## "negative regulation of circadian rhythm"
## "presynapse assembly"
## "segment specification"
## "regulation of response to food"
## "positive regulation of smoothened signaling pathway"
## "regulation of neuron death"
## "elastic fiber assembly"
## "enteric nervous system development"
## "negative regulation of T cell apoptotic process"
## "negative regulation of CREB transcription factor activity"

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```

## "cholesterol homeostasis"
## "positive regulation of corticotropin secretion"
## "vesicle fusion with Golgi apparatus"
## "targeting of mRNA for destruction involved in RNA interference"
## "protein trimerization"
## "branching involved in salivary gland morphogenesis"
## "regulation of cell projection assembly"
## "negative regulation of myofibroblast differentiation"
## "positive regulation of dendritic cell antigen processing and presentation"
## "positive regulation of gap junction assembly"
## "negative regulation of dopamine receptor signaling pathway"
## "smooth muscle cell differentiation"
## "cellular response to nitric oxide"
## "regulation of G1/S transition of mitotic cell cycle"
## "keratinocyte development"
## "regulation of translational initiation"
## "JAK-STAT cascade"
## "positive regulation of transforming growth factor beta receptor signaling pathway"
## "modification of synaptic structure"
## "regulation of centriole replication"
## "response to vitamin D"
## "ubiquitin-dependent protein catabolic process"
## "negative regulation of cell size"
## "termination of RNA polymerase I transcription"
## "cilium organization"
## "glycosaminoglycan catabolic process"
## "protein import into nucleus"
## "definitive hemopoiesis"
## "bone development"
## "canonical Wnt signaling pathway involved in regulation of cell proliferation"
## "adenylate cyclase-inhibiting serotonin receptor signaling pathway"
## "positive regulation of regulatory T cell differentiation"
## "negative regulation of NIK/NF-kappaB signaling"
## "de novo centriole assembly involved in multi-ciliated epithelial cell differentiation"
## "positive regulation of cell aging"
## "negative regulation of anoikis"
## "dendritic spine maintenance"
## "response to amino acid"
## "germ cell migration"
## "positive regulation of interleukin-2 production"
## "anoikis"
## "mammary gland epithelial cell differentiation"
## "maturation of SSU-rRNA"
## "regulation of circadian sleep/wake cycle, sleep"
## "negative regulation of PERK-mediated unfolded protein response"
## "positive regulation of intracellular transport"
## "spleen development"
## "blood vessel maturation"
## "peptide cross-linking"
## "double-strand break repair via nonhomologous end joining"
## "peptidyl-serine phosphorylation"
## "regulation of cardiac muscle contraction"
## "osteoblast differentiation"
## "suckling behavior"

```

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## "positive regulation of neuron death"
## "regulation of epithelial cell migration"
## "operant conditioning"
## "regulation of glycogen metabolic process"
## "UV-damage excision repair"
## "regulation of modification of postsynaptic structure"
## "embryonic foregut morphogenesis"
## "DNA damage response, signal transduction by p53 class mediator"
## "negative regulation of histone H3-K9 trimethylation"
## "mitotic G1 DNA damage checkpoint"
## "homologous chromosome segregation"
## "tissue homeostasis"
## "negative regulation of cell-matrix adhesion"
## "positive regulation of extracellular matrix organization"
## "tachykinin receptor signaling pathway"
## "determination of left/right symmetry"
## "mitotic nuclear envelope reassembly"
## "regulation of appetite"
## "mRNA alternative polyadenylation"
## "messenger ribonucleoprotein complex assembly"
## "negative regulation of cell-substrate adhesion"
## "hyaluronan catabolic process"
## "Leydig cell differentiation"
## "DNA strand renaturation"
## "positive regulation of thymocyte apoptotic process"
## "transcription by RNA polymerase III"
## "paraxial mesoderm development"
## "embryonic skeletal system development"
## "negative regulation of mesenchymal cell proliferation"
## "substrate-dependent cell migration, cell extension"
## "myofibril assembly"
## "sister chromatid biorientation"
## "non-motile cilium assembly"
## "dendritic cell differentiation"
## "negative regulation of long-term synaptic potentiation"
## "negative regulation of macrophage apoptotic process"
## "beta-catenin-TCF complex assembly"
## "exit from mitosis"
## "mature conventional dendritic cell differentiation"
## "regulation of cyclin-dependent protein serine/threonine kinase activity"
## "hormone-mediated apoptotic signaling pathway"
## "activation of protein kinase B activity"
## "positive regulation of growth hormone secretion"
## "positive regulation of cholesterol storage"
## "positive regulation of integrin activation"
## "cartilage development"
## "regulation of lipid kinase activity"
## "neutrophil clearance"
## "protein localization to chromosome, centromeric region"
## "positive regulation of endothelial cell migration"
## "enucleate erythrocyte differentiation"
## "regulation of Wnt signaling pathway"
## "regulation of dopamine metabolic process"
## "cellular response to exogenous dsRNA"

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##      "regulation of entry of bacterium into host cell"
##      "hair cycle"
##      "synaptic vesicle docking"
##      "negative regulation of interleukin-10 production"
##      "positive regulation of interleukin-17 production"
##      "response to lipid"
##      "regulation of leukocyte migration"
##      "cellular response to extracellular stimulus"
##      "negative regulation of nitric-oxide synthase activity"
##      "regulation of SMAD protein signal transduction"
##      "regulation of dopamine uptake involved in synaptic transmission"
##      "ER to Golgi vesicle-mediated transport"
##      "cellular response to prostaglandin E stimulus"
##      "negative regulation of cold-induced thermogenesis"
##      "positive regulation of collagen fibril organization"
##      "positive regulation of circadian sleep/wake cycle, non-REM sleep"
##      "cell migration involved in sprouting angiogenesis"
##      "positive regulation of JAK-STAT cascade"
##      "cellular response to xenobiotic stimulus"
##      "response to corticosterone"
##      "microtubule nucleation"
##      "cholesterol efflux"
##      "positive regulation of cortisol secretion"
##      "angiotensin-activated signaling pathway involved in heart process"
##      "intestinal absorption"
##      "spinal cord motor neuron differentiation"
##      "histone H4-K16 acetylation"
##      "abortive mitotic cell cycle"
##      "negative regulation of interleukin-17 production"
##      "histone lysine methylation"
##      "chemosensory behavior"
##      "tissue regeneration"
##      "blood vessel endothelial cell migration"
##      "regulation of microtubule polymerization"
##      "cerebellum morphogenesis"
##      "IRES-dependent viral translational initiation"
##      "maternal aggressive behavior"
##      "negative regulation of isotype switching to IgE isotypes"
##      "positive regulation of T cell migration"
##      "positive regulation by host of viral transcription"
##      "protein autophosphorylation"
##      "regulation of striated muscle tissue development"
##      "regulation of myelination"
##      "response to toxic substance"
##      "parathyroid gland development"
##      "mammary gland alveolus development"
##      "regulation of cytokine production"
##      "mast cell chemotaxis"
##      "positive regulation of inositol trisphosphate biosynthetic process"
##      "regulation of centrosome duplication"
##      "establishment of Sertoli cell barrier"
##      "cellular response to DNA damage stimulus"
##      "negative regulation of neuron differentiation"
##      "DNA topological change"

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##      "nuclear pore organization"
##      "postsynaptic neurotransmitter receptor internalization"
##      "renin-angiotensin regulation of aldosterone production"
##      "activation of JUN kinase activity"
##      "phosphatidylinositol 3-kinase signaling"
##      "regulation of synaptic vesicle exocytosis"
##      "platelet-derived growth factor receptor-beta signaling pathway"
##      "positive regulation of methylation-dependent chromatin silencing"
##      "cellular response to nutrient levels"
##      "face morphogenesis"
##      "positive regulation of eating behavior"
##      "positive regulation of small GTPase mediated signal transduction"
##      "regulation of lipid transport by negative regulation of transcription from RNA po
##      "regulation of insulin receptor signaling pathway"
##      "positive regulation of gene silencing by miRNA"
##      "hemidesmosome assembly"
##      "spindle organization"
##      "neuron fate commitment"
##      "regulation of transmission of nerve impulse"
##      "negative regulation of smooth muscle cell apoptotic process"
##      "positive regulation of insulin secretion involved in cellular response to glucose
##      "histone H3-K4 methylation"
##      "positive regulation of action potential"
##      "positive regulation of leukocyte migration"
##      "adenohypophysis development"
##      "stress fiber assembly"
##      "interleukin-7-mediated signaling pathway"
##      "tissue development"
##      "prolactin secretion"
##      "lipoprotein transport"
##      "circadian behavior"
##      "negative regulation of epinephrine secretion"
##      "cellular response to fatty acid"
##      "chondroitin sulfate biosynthetic process"
##      "cardiac muscle fiber development"
##      "regulation of binding"
##      "regulation of extrinsic apoptotic signaling pathway via death domain receptors"
##      "regulation of clathrin-dependent endocytosis"
##      "maintenance of mitotic sister chromatid cohesion"
##      "common-partner SMAD protein phosphorylation"
##      "cellular response to interleukin-1"
##      "regulation of establishment of cell polarity"
##      "nitric oxide mediated signal transduction"
##      "positive regulation of interferon-alpha secretion"
##      "urinary bladder development"
##      "peptidyl-lysine acetylation"
##      "negative regulation of transcription regulatory region DNA binding"
##      "histone H3 deacetylation"
##      "aortic valve morphogenesis"
##      "regulation of cohesin loading"
##      "signal transduction involved in G2 DNA damage checkpoint"
##      "negative regulation of leukocyte tethering or rolling"
##      "dosage compensation by inactivation of X chromosome"
##      "mRNA 5'-splice site recognition"

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```

## "negative regulation of T-helper 2 cell differentiation"
## "cellular response to BMP stimulus"
## "negative regulation of protein localization to nucleus"
## "regulation of androgen receptor signaling pathway"
## "positive regulation of clathrin-dependent endocytosis"
## "positive regulation of interleukin-8 secretion"
## "negative regulation of extrinsic apoptotic signaling pathway"
## "epithelial cell morphogenesis"
## "regulation of transforming growth factor beta2 production"
## "follicle-stimulating hormone signaling pathway"
## "protein localization to organelle"
## "negative regulation of gastric acid secretion"
## "DNA synthesis involved in DNA repair"
## "intestine smooth muscle contraction"
## "detection of calcium ion"
## "smooth muscle contraction"
## "negative regulation of protein neddylation"
## "centriole-centriole cohesion"
## "dendritic transport of messenger ribonucleoprotein complex"
## "cardiac left ventricle morphogenesis"
## "negative regulation of peptidyl-lysine acetylation"
## "plasma membrane tubulation"
## "positive regulation of gene expression, epigenetic"
## "chordate embryonic development"
## "regulation of retinoic acid receptor signaling pathway"
## "ventricular cardiac muscle cell differentiation"
## "cardiac muscle contraction"
## "positive regulation of cholesterol esterification"
## "response to food"
## "regulation of microtubule-based process"
## "cannabinoid signaling pathway"
## "apoptotic cell clearance"
## "mesoderm development"
## "regulation of blood coagulation"
## "cellular protein modification process"
## "positive regulation of receptor biosynthetic process"
## "positive regulation of interleukin-1 production"
## "positive regulation of endothelial cell proliferation"
## "regulation of synaptic transmission, GABAergic"
## "cellular response to tumor necrosis factor"
## "negative regulation of telomerase activity"
## "regulation of cell-cell adhesion"
## "positive regulation of vitamin D receptor signaling pathway"
## "protein localization to chromatin"
## "hepatocyte growth factor receptor signaling pathway"
## "positive regulation of cell motility"
## "liver regeneration"
## "negative regulation of histone H3-K4 methylation"
## "positive regulation of histone H2B ubiquitination"
## "endothelial cell activation"
## "negative regulation of protein oligomerization"
## "positive regulation of osteoblast proliferation"
## "regulation of apoptotic process"
## "negative regulation of T cell cytokine production"

```

```

## "negative regulation of cell adhesion mediated by integrin"
## "regulation of systemic arterial blood pressure by endothelin"
## "regulation of smooth muscle contraction"
## "positive regulation of ossification"
## "positive regulation of phagocytosis, engulfment"
## "protein kinase C signaling"
## "cell-cell adhesion"
## "response to cholesterol"
## "type I interferon signaling pathway"
## "negative regulation of neurotrophin TRK receptor signaling pathway"
## "negative regulation of interleukin-1 beta production"
## "serotonin receptor signaling pathway"
## "macrophage derived foam cell differentiation"
## "cytoplasmic microtubule organization"
## "nuclear envelope disassembly"
## "positive regulation of epidermal growth factor-activated receptor activity"
## "regulation of DNA methylation"
## "positive regulation of apoptotic signaling pathway"
## "positive regulation of nitric oxide biosynthetic process"
## "negative regulation of protein secretion"
## "embryonic placenta morphogenesis"
## "drinking behavior"
## "posttranscriptional regulation of gene expression"
## "response to histamine"
## "negative regulation of extrinsic apoptotic signaling pathway via death domain rec"
## "negative regulation of nucleic acid-templated transcription"
## "regulation of microtubule motor activity"
## "regulation of chromosome segregation"
## "cytokine secretion"
## "negative regulation of phosphorylation"
## "positive regulation of epithelial to mesenchymal transition involved in endocardi"
## "synaptic vesicle exocytosis"
## "regulation of megakaryocyte differentiation"
## "brain development"
## "negative regulation of vascular associated smooth muscle cell migration"
## "actin filament polymerization"
## "negative regulation of chondrocyte differentiation"
## "epithelial to mesenchymal transition involved in endocardial cushion formation"
## "negative regulation of dendritic cell apoptotic process"
## "negative regulation of helicase activity"
## "coronary artery morphogenesis"
## "negative regulation of G1/S transition of mitotic cell cycle"
## "positive regulation of JUN kinase activity"
## "post-embryonic development"
## "erythrocyte differentiation"
## "positive regulation of aspartic-type endopeptidase activity involved in amyloid p"
## "negative regulation of peptidyl-tyrosine phosphorylation"
## "cardiac muscle hypertrophy"
## "positive regulation of T cell anergy"
## "positive regulation of penile erection"
## "negative regulation of synaptic transmission, GABAergic"
## "positive regulation of epithelial cell apoptotic process"
## "negative regulation of blood vessel endothelial cell migration"
## "mitotic spindle organization"

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##      "positive regulation of blood coagulation"
##      "interferon-gamma secretion"
##      "replication fork processing"
##      "positive regulation of intracellular protein transport"
##      "phospholipase C-activating G protein-coupled acetylcholine receptor signaling path
##      "DNA recombination"
##      "positive regulation of vascular endothelial growth factor receptor signaling pathw
##      "positive regulation of ubiquitin-dependent protein catabolic process"
##      "positive regulation of histone deacetylation"
##      "positive regulation of vesicle fusion"
##      "spermatogenesis"
##      "histone H3-K4 trimethylation"
##      "neuroblast proliferation"
##      "positive regulation of epithelial cell proliferation involved in lung morphogenes
##      "negative regulation of focal adhesion assembly"
##      "regulation of calcium ion transport"
##      "negative regulation of lipid catabolic process"
##      "heart process"
##      "attachment of spindle microtubules to kinetochore"
##      "regulation of norepinephrine secretion"
##      "regulation of osteoblast differentiation"
##      "negative regulation of synaptic transmission, glutamatergic"
##      "response to prostaglandin E"
##      "induction of positive chemotaxis"
##      "somite development"
##      "positive regulation of basement membrane assembly involved in embryonic body morp
##      "negative regulation of epithelial cell proliferation"
##      "anatomical structure formation involved in morphogenesis"
##      "regulation of immune response"
##      "hormone metabolic process"
##      "positive regulation of protein targeting to membrane"
##      "regulation of stem cell population maintenance"
##      "prepulse inhibition"
##      "negative regulation of angiogenesis"
##      "negative regulation of interleukin-6 production"
##      "regulation of gene expression"
##      "positive regulation of cell adhesion mediated by integrin"
##      "regulation of skeletal muscle cell differentiation"
##      "skeletal muscle cell differentiation"
##      "cellular response to interleukin-2"
##      "cellular response to wortmannin"
##      "cellular response to prolactin"
##      "cellular response to organic cyclic compound"
##      "response to ionizing radiation"
##      "mast cell degranulation"
##      "neurotransmitter secretion"
##      "internal peptidyl-lysine acetylation"
##      "regulation of genetic imprinting"
##      "amylin receptor signaling pathway"
##      "neuronal action potential"
##      "convergent extension involved in neural plate elongation"
##      "male sex determination"
##      "regulation of phosphatidylinositol 3-kinase activity"
##      "cell-cell junction assembly"

```

```

## "positive regulation of MAP kinase activity"
## "positive regulation of glucose mediated signaling pathway"
## "cellular response to fluid shear stress"
## "extracellular matrix organization"
## "positive regulation of transcription by RNA polymerase III"
## "negative regulation of endothelial cell apoptotic process"
## "maintenance of chromatin silencing"
## "homeostasis of number of cells"
## "positive regulation of DNA topoisomerase (ATP-hydrolyzing) activity"
## "negative chemotaxis"
## "attachment of mitotic spindle microtubules to kinetochore"
## "inner cell mass cell proliferation"
## "secondary palate development"
## "positive regulation of vascular endothelial cell proliferation"
## "negative regulation of BMP signaling pathway"
## "DNA-templated transcription, termination"
## "positive regulation of neutrophil apoptotic process"
## "base-excision repair"
## "positive regulation of appetite"
## "exonucleolytic nuclear-transcribed mRNA catabolic process involved in deadenylation"
## "establishment of skin barrier"
## "blood coagulation"
## "positive regulation of actin filament bundle assembly"
## "negative regulation of natural killer cell mediated cytotoxicity"
## "protein kinase B signaling"
## "negative regulation of immune response"
## "regulation of angiogenesis"
## "actin filament branching"
## "regulation of blood vessel diameter"
## "positive regulation of leukocyte chemotaxis"
## "positive regulation of histone H4 acetylation"
## "protein localization to microtubule"
## "positive regulation of smooth muscle cell differentiation"
## "regulation of microtubule polymerization or depolymerization"
## "regulation of transcription by RNA polymerase I"
## "positive regulation of non-membrane spanning protein tyrosine kinase activity"
## "intracellular transport"
## "limb development"
## "receptor transactivation"
## "memory"
## "positive thymic T cell selection"
## "regulation of cell shape"
## "positive regulation of protein localization to centrosome"
## "cellular response to hepatocyte growth factor stimulus"
## "tolerance induction to self antigen"
## "DNA duplex unwinding"
## "gastric acid secretion"
## "regulation of neurotransmitter receptor localization to postsynaptic specialization"
## "chromosome condensation"
## "Wnt signaling pathway"
## "release of sequestered calcium ion into cytosol"
## "nucleic acid phosphodiester bond hydrolysis"
## "positive regulation of neuroblast proliferation"
## "mRNA 3'-end processing by stem-loop binding and cleavage"

```

```

##      "kinetochore assembly"
##      "methylation-dependent chromatin silencing"
##      "microtubule anchoring"
##      "white fat cell differentiation"
##      "negative regulation of histone H3-K9 methylation"
##      "cellular response to X-ray"
##      "negative regulation of endopeptidase activity"
##      "regulation of pri-miRNA transcription by RNA polymerase II"
##      "positive regulation of protein import into nucleus"
##      "cellular response to glucose stimulus"
##      "positive regulation of cardiac muscle cell proliferation"
##      "regulation of metaphase plate congression"
##      "regulation of mRNA polyadenylation"
##      "regulation of DNA repair"
##      "regulation of systemic arterial blood pressure by vasopressin"
##      "regulation of myeloid cell differentiation"
##      "regulation of axon extension"
##      "response to mineralocorticoid"
##      "regulation of intracellular estrogen receptor signaling pathway"
##      "negative regulation of gene silencing by miRNA"
##      "positive regulation of cellular component movement"
##      "cellular response to interferon-gamma"
##      "negative regulation of dendritic spine development"
##      "Fc-epsilon receptor signaling pathway"
##      "negative regulation of blood pressure"
##      "seminiferous tubule development"
##      "regulation of postsynaptic neurotransmitter receptor activity"
##      "regulation of autophagy"
##      "positive regulation of smooth muscle cell proliferation"
##      "gamma-aminobutyric acid signaling pathway"
##      "positive regulation of DNA damage response, signal transduction by p53 class medi
##      "regulation of vitamin D receptor signaling pathway"
##      "positive regulation of cellular protein metabolic process"
##      "positive regulation of reactive oxygen species metabolic process"
##      "positive regulation of intracellular estrogen receptor signaling pathway"
##      "cell growth involved in cardiac muscle cell development"
##      "embryonic hemopoiesis"
##      "positive regulation of neurogenesis"
##      "beta-catenin destruction complex disassembly"
##      "negative regulation of MHC class II biosynthetic process"
##      "positive regulation of receptor internalization"
##      "cellular response to vascular endothelial growth factor stimulus"
##      "growth hormone receptor signaling pathway"
##      "skin development"
##      "Notch signaling pathway"
##      "protein localization"
##      "nuclear migration"
##      "positive regulation of viral transcription"
##      "phosphorylation of RNA polymerase II C-terminal domain"
##      "cellular response to indole-3-methanol"
##      "dorsal/ventral pattern formation"
##      "regulation of cell motility"
##      "positive regulation of circadian rhythm"
##      "mitotic centrosome separation"

```

```

## "inner ear development"
## "regulation of lamellipodium assembly"
## "positive regulation of histone H3-K9 methylation"
## "cytoskeletal anchoring at plasma membrane"
## "negative regulation of cell cycle"
## "G protein-coupled serotonin receptor signaling pathway"
## "platelet formation"
## "cellular response to hormone stimulus"
## "fibrinolysis"
## "regulation of postsynaptic membrane potential"
## "phospholipase C-activating dopamine receptor signaling pathway"
## "positive regulation of systemic arterial blood pressure"
## "regulation of smooth muscle cell proliferation"
## "developmental growth"
## "regulation of signal transduction by p53 class mediator"
## "aorta development"
## "embryonic skeletal system morphogenesis"
## "pigmentation"
## "positive regulation of peptidyl-threonine phosphorylation"
## "somatostatin signaling pathway"
## "regulation of hormone secretion"
## "energy homeostasis"
## "regulation of renal sodium excretion"
## "embryonic hindlimb morphogenesis"
## "signal transduction in response to DNA damage"
## "regulation of transforming growth factor beta receptor signaling pathway"
## "histone H3 acetylation"
## "activated T cell proliferation"
## "positive regulation of fat cell differentiation"
## "negative regulation of protein binding"
## "lung alveolus development"
## "dopamine metabolic process"
## "negative regulation of adenylate cyclase-activating G protein-coupled receptor si"
## "negative regulation of interleukin-2 production"
## "regulation of neurogenesis"
## "regulation of chemotaxis"
## "RNA phosphodiester bond hydrolysis, endonucleolytic"
## "negative regulation of cell motility"
## "intermediate filament organization"
## "protein localization to chromosome, telomeric region"
## "osteoclast development"
## "cytokine production"
## "fungiform papilla formation"
## "coronary vasculature development"
## "sensory perception of taste"
## "activation of MAPK activity"
## "positive regulation of muscle cell differentiation"
## "branching morphogenesis of an epithelial tube"
## "odontogenesis of dentin-containing tooth"
## "telomere maintenance via semi-conservative replication"
## "endothelial cell migration"
## "regulation of inflammatory response"
## "positive regulation of G1/S transition of mitotic cell cycle"
## "vesicle docking"

```

"negative regulation of protein tyrosine kinase activity"
 ## "negative regulation of cardiac muscle hypertrophy in response to stress"
 ## "protein localization to cytoplasmic stress granule"
 ## "nucleotide-excision repair, preincision complex stabilization"
 ## "female pregnancy"
 ## "vein smooth muscle contraction"
 ## "artery morphogenesis"
 ## "hair follicle placode formation"
 ## "protein autoubiquitination"
 ## "signal transduction involved in DNA damage checkpoint"
 ## "retinoic acid receptor signaling pathway"
 ## "positive regulation of neuron projection development"
 ## "prostate gland development"
 ## "eosinophil chemotaxis"
 ## "negative regulation of protein serine/threonine kinase activity"
 ## "dendrite development"
 ## "regulation of epithelial to mesenchymal transition"
 ## "positive regulation of cell migration involved in sprouting angiogenesis"
 ## "establishment of T cell polarity"
 ## "T cell differentiation"
 ## "positive regulation of chondrocyte differentiation"
 ## "chromatin assembly"
 ## "maternal behavior"
 ## "epidermal cell differentiation"
 ## "maternal process involved in female pregnancy"
 ## "synapse assembly"
 ## "positive regulation of T cell receptor signaling pathway"
 ## "adenylate cyclase-inhibiting dopamine receptor signaling pathway"
 ## "lamellipodium assembly"
 ## "regulation of regulatory T cell differentiation"
 ## "homophilic cell adhesion via plasma membrane adhesion molecules"
 ## "CRD-mediated mRNA stabilization"
 ## "bleb assembly"
 ## "semaphorin-plexin signaling pathway"
 ## "sprouting angiogenesis"
 ## "positive regulation of uterine smooth muscle contraction"
 ## "positive regulation of glutamate secretion"
 ## "locomotory behavior"
 ## "dendrite morphogenesis"
 ## "negative regulation of centriole replication"
 ## "actin filament capping"
 ## "positive regulation of transcription elongation from RNA polymerase II promoter"
 ## "response to retinoic acid"
 ## "positive regulation of prostaglandin biosynthetic process"
 ## "pattern specification process"
 ## "positive regulation of B cell activation"
 ## "positive regulation of cold-induced thermogenesis"
 ## "entrainment of circadian clock by photoperiod"
 ## "mRNA 3'-splice site recognition"
 ## "negative regulation of stress fiber assembly"
 ## "viral process"
 ## "smoothened signaling pathway"
 ## "phototransduction"
 ## "regulation of cell cycle G2/M phase transition"

```

##      "mRNA cleavage"
##      "negative regulation of cyclin-dependent protein serine/threonine kinase activity"
##      "regulation of actin cytoskeleton organization"
##      "positive regulation of transcription of nucleolar large rRNA by RNA polymerase I"
##      "positive regulation of cell-matrix adhesion"
##      "cell fate commitment"
##      "adenosine receptor signaling pathway"
##      "sphingosine-1-phosphate receptor signaling pathway"
##      "mitotic metaphase plate congression"
##      "thrombin-activated receptor signaling pathway"
##      "negative regulation of glutamate secretion"
##      "antigen processing and presentation of exogenous peptide antigen via MHC class II"
##      "intrinsic apoptotic signaling pathway by p53 class mediator"
##      "regulation of vascular permeability"
##      "T cell chemotaxis"
##      "activin receptor signaling pathway"
##      "negative regulation of norepinephrine secretion"
##      "positive regulation of histone H3-K9 acetylation"
##      "transforming growth factor beta receptor signaling pathway"
##      "negative regulation of RNA splicing"
##      "positive regulation of hormone secretion"
##      "endoderm development"
##      "protein localization to kinetochore"
##      "atrioventricular canal development"
##      "inositol phosphate-mediated signaling"
##      "nucleosome disassembly"
##      "negative regulation of mRNA polyadenylation"
##      "mRNA stabilization"
##      "central nervous system development"
##      "double-strand break repair via homologous recombination"
##      "vesicle fusion"
##      "negative regulation of osteoblast differentiation"
##      "platelet-derived growth factor receptor signaling pathway"
##      "meiotic cell cycle"
##      "SCF-dependent proteasomal ubiquitin-dependent protein catabolic process"
##      "positive regulation of RNA export from nucleus"
##      "outflow tract septum morphogenesis"
##      "negative regulation of cAMP-mediated signaling"
##      "positive regulation of transcription from RNA polymerase II promoter involved in"
##      "positive regulation of cardiac muscle cell differentiation"
##      "positive regulation of sprouting angiogenesis"
##      "pharyngeal system development"
##      "regulation of heart contraction"
##      "circadian regulation of gene expression"
##      "regulation of translation"
##      "somitogenesis"
##      "phagocytosis, recognition"
##      "mRNA transcription"
##      "negative regulation of peptidyl-serine phosphorylation"
##      "neuropilin signaling pathway"
##      "positive regulation of pseudopodium assembly"
##      "positive regulation of insulin receptor signaling pathway"
##      "mitotic sister chromatid segregation"
##      "ERBB2 signaling pathway"

```



```

##      "regulation of behavior"
##      "nucleotide-excision repair"
##      "stress granule assembly"
##      "primary miRNA processing"
##      "positive regulation of ruffle assembly"
##      "histone H4 deacetylation"
##      "positive regulation of cell adhesion"
##      "regulation of cell adhesion mediated by integrin"
##      "protein K6-linked ubiquitination"
##      "neutrophil activation"
##      "positive regulation of urine volume"
##      "collagen fibril organization"
##      "sensory perception of smell"
##      "cardiac muscle cell apoptotic process"
##      "mitotic sister chromatid cohesion"
##      "positive regulation of macrophage differentiation"
##      "regulation of cytokinesis"
##      "response to estradiol"
##      "ureteric bud development"
##      "osteoblast development"
##      "adherens junction organization"
##      "skeletal muscle tissue development"
##      "positive regulation of intrinsic apoptotic signaling pathway by p53 class mediator"
##      "neuronal stem cell population maintenance"
##      "regulation of G2/M transition of mitotic cell cycle"
##      "uterus development"
##      "positive regulation of cytokinesis"
##      "histone deacetylation"
##      "positive regulation of pathway-restricted SMAD protein phosphorylation"
##      "regulation of double-strand break repair via homologous recombination"
##      "ruffle organization"
##      "adenylate cyclase-inhibiting G protein-coupled glutamate receptor signaling pathway"
##      "MAPK cascade"
##      "dopamine receptor signaling pathway"
##      "intracellular estrogen receptor signaling pathway"
##      "sensory perception"
##      "O-glycan processing"
##      "pathway-restricted SMAD protein phosphorylation"
##      "microtubule organizing center organization"
##      "cellular response to ionizing radiation"
##      "positive regulation of translational initiation"
##      "striated muscle cell differentiation"
##      "chromatin organization"
##      "myoblast differentiation"
##      "regulation of mRNA splicing, via spliceosome"
##      "positive regulation of phospholipase C activity"
##      "positive regulation of calcium ion import"
##      "positive regulation of ubiquitin-protein transferase activity"
##      "positive regulation of neutrophil chemotaxis"
##      "cell maturation"
##      "response to acidic pH"
##      "retinal ganglion cell axon guidance"
##      "positive regulation of cell cycle arrest"
##      "nucleosome positioning"

```

```

##      "N-terminal peptidyl-lysine acetylation"
##      "positive regulation of proteolysis"
##      "endocytosis"
##      "negative regulation of I-kappaB kinase/NF-kappaB signaling"
##      "protein targeting to membrane"
##      "protein K11-linked ubiquitination"
##      "axonogenesis"
##      "signal complex assembly"
##      "G-quadruplex DNA unwinding"
##      "negative regulation of DNA-binding transcription factor activity"
##      "social behavior"
##      "artery smooth muscle contraction"
##      "negative regulation of MAP kinase activity"
##      "DNA damage response, signal transduction by p53 class mediator resulting in trans
##      "negative regulation of tumor necrosis factor production"
##      "positive regulation of protein phosphorylation"
##      "glycosaminoglycan biosynthetic process"
##      "ribosomal large subunit biogenesis"
##      "negative regulation of protein kinase activity"
##      "negative regulation of viral genome replication"
##      "non-canonical Wnt signaling pathway"
##      "DNA damage response, signal transduction by p53 class mediator resulting in cell
##      "positive regulation of gene expression"
##      "mRNA transcription by RNA polymerase II"
##      "Rho protein signal transduction"
##      "positive regulation of extrinsic apoptotic signaling pathway"
##      "phagocytosis"
##      "negative regulation of JNK cascade"
##      "stimulatory C-type lectin receptor signaling pathway"
##      "positive regulation of translation"
##      "positive regulation of chemotaxis"
##      "protein ubiquitination"
##      "vesicle docking involved in exocytosis"
##      "positive regulation of DNA repair"
##      "positive regulation of cAMP-mediated signaling"
##      "estrous cycle"
##      "mitotic spindle assembly checkpoint"
##      "macrophage chemotaxis"
##      "response to amphetamine"
##      "regulation of mRNA processing"
##      "negative regulation of chromatin silencing"
##      "alpha-beta T cell differentiation"
##      "regulation of focal adhesion assembly"
##      "complement receptor mediated signaling pathway"
##      "adult walking behavior"
##      "negative regulation of protein complex assembly"
##      "adenylate cyclase-inhibiting G protein-coupled acetylcholine receptor signaling p
##      "positive regulation of sensory perception of pain"
##      "regulation of circadian rhythm"
##      "positive regulation of interleukin-1 beta production"
##      "positive regulation of interleukin-4 production"
##      "negative regulation of ERK1 and ERK2 cascade"
##      "protein K63-linked ubiquitination"
##      "protein kinase C-activating G protein-coupled receptor signaling pathway"

```

```

## "positive regulation of epidermal growth factor receptor signaling pathway"
## "double-strand break repair"
## "DNA replication initiation"
## "cellular response to platelet-derived growth factor stimulus"
## "Rac protein signal transduction"
## "intraciliary transport involved in cilium assembly"
## "protein localization to plasma membrane"
## "regulation of cell adhesion"
## "behavioral response to ethanol"
## "negative regulation of fat cell differentiation"
## "negative regulation of osteoclast differentiation"
## "positive regulation of filopodium assembly"
## "ribosomal small subunit biogenesis"
## "pri-miRNA transcription by RNA polymerase II"
## "branching involved in mammary gland duct morphogenesis"
## "intrinsic apoptotic signaling pathway in response to DNA damage by p53 class medi
## "regulation of vasoconstriction"
## "negative regulation of ubiquitin protein ligase activity"
## "intracellular steroid hormone receptor signaling pathway"
## "negative regulation of cellular senescence"
## "response to virus"
## "centriole replication"
## "positive regulation of MAPK cascade"
## "DNA double-strand break processing"
## "cellular protein localization"
## "defense response to bacterium"
## "positive regulation of mitotic nuclear division"
## "positive regulation of actin filament polymerization"
## "epithelial to mesenchymal transition"
## "positive regulation of calcium ion transport"
## "positive regulation of interleukin-6 secretion"
## "planar cell polarity pathway involved in neural tube closure"
## "negative regulation of insulin receptor signaling pathway"
## "macrophage differentiation"
## "regulation of hematopoietic stem cell differentiation"
## "negative regulation of T cell proliferation"
## "regulation of RNA splicing"
## "embryonic pattern specification"
## "negative regulation of smoothened signaling pathway"
## "positive regulation of glucose import in response to insulin stimulus"
## "mitotic nuclear envelope disassembly"
## "megakaryocyte development"
## "cellular defense response"
## "response to progesterone"
## "postreplication repair"
## "sister chromatid cohesion"
## "CENP-A containing nucleosome assembly"
## "positive regulation of focal adhesion assembly"
## "cellular response to cytokine stimulus"
## "muscle organ development"
## "adaptive immune response"
## "ciliary basal body-plasma membrane docking"
## "defense response"
## "somatic stem cell population maintenance"

```

```

## "protein K48-linked ubiquitination"
## "import into nucleus"
## "transcription-coupled nucleotide-excision repair"
## "positive regulation of cell division"
## "protein heterotrimerization"
## "mitotic spindle assembly"
## "opioid receptor signaling pathway"
## "positive regulation of T cell chemotaxis"
## "branching involved in blood vessel morphogenesis"
## "G protein-coupled glutamate receptor signaling pathway"
## "T cell receptor signaling pathway"
## "positive regulation of receptor-mediated endocytosis"
## "G protein-coupled purinergic nucleotide receptor signaling pathway"
## "positive regulation of neuron differentiation"
## "positive regulation of monocyte chemotaxis"
## "integrin-mediated signaling pathway"
## "cellular response to catecholamine stimulus"
## "negative regulation of protein kinase B signaling"
## "regulation of smoothened signaling pathway"
## "BMP signaling pathway"
## "activation of GTPase activity"
## "cognition"
## "protein polyubiquitination"
## "positive regulation of tyrosine phosphorylation of STAT protein"
## "regulation of cell cycle"
## "negative regulation of Wnt signaling pathway"
## "regulation of microtubule cytoskeleton organization"
## "positive regulation of positive chemotaxis"
## "centrosome localization"
## "protein acetylation"
## "positive regulation of cardiac muscle hypertrophy"
## "positive regulation of blood pressure"
## "embryonic cranial skeleton morphogenesis"
## "microtubule bundle formation"
## "complement activation, classical pathway"
## "ephrin receptor signaling pathway"
## "positive regulation of tumor necrosis factor production"
## "cholesterol metabolic process"
## "Wnt signaling pathway, planar cell polarity pathway"
## "positive regulation of microtubule polymerization"
## "regulation of gene silencing by miRNA"
## "G protein-coupled acetylcholine receptor signaling pathway"
## "mRNA splice site selection"
## "positive regulation of JNK cascade"
## "RNA splicing, via transesterification reactions"
## "nervous system development"
## "positive regulation of blood vessel endothelial cell migration"
## "intracellular signal transduction"
## "cornification"
## "positive regulation of actin cytoskeleton reorganization"
## "entry of bacterium into host cell"
## "positive regulation of oligodendrocyte differentiation"
## "3'-UTR-mediated mRNA stabilization"
## "long-term memory"

```

```

##      "DNA methylation"
##      "positive regulation of collagen biosynthetic process"
##      "keratinocyte differentiation"
##      "response to wounding"
##      "complement activation"
##      "response to estrogen"
##      "negative regulation of NF-kappaB transcription factor activity"
##      "embryonic digit morphogenesis"
##      "transmembrane receptor protein tyrosine kinase signaling pathway"
##      "neural tube closure"
##      "actin cytoskeleton reorganization"
##      "positive regulation of smooth muscle cell migration"
##      "actin cytoskeleton organization"
##      "canonical Wnt signaling pathway"
##      "cochlea morphogenesis"
##      "digestive tract development"
##      "protein phosphorylation"
##      "hemopoiesis"
##      "vasculogenesis"
##      "Fc-gamma receptor signaling pathway involved in phagocytosis"
##      "B cell receptor signaling pathway"
##      "DNA repair"
##      "regulation of complement activation"
##      "cell cycle arrest"
##      "cell projection assembly"
##      "negative regulation of epidermal growth factor receptor signaling pathway"
##      "positive regulation of DNA-binding transcription factor activity"
##      "forebrain development"
##      "negative regulation of gene expression"
##      "blood circulation"
##      "negative regulation of mRNA splicing, via spliceosome"
##      "neuron projection development"
##      "anterior/posterior pattern specification"
##      "rhodopsin mediated signaling pathway"
##      "arachidonic acid secretion"
##      "negative regulation of inflammatory response"
##      "positive regulation of substrate adhesion-dependent cell spreading"
##      "positive regulation of renal sodium excretion"
##      "interferon-gamma-mediated signaling pathway"
##      "mitotic cell cycle checkpoint"
##      "positive regulation of vasoconstriction"
##      "positive regulation of cell growth"
##      "positive regulation of lamellipodium assembly"
##      "G protein-coupled receptor internalization"
##      "positive regulation of histone H3-K4 methylation"
##      "positive regulation of mRNA splicing, via spliceosome"
##      "positive regulation of type I interferon production"
##      "G2/M transition of mitotic cell cycle"
##      "dendritic cell chemotaxis"
##      "positive regulation of transcription of Notch receptor target"
##      "negative regulation of canonical Wnt signaling pathway"
##      "cell cycle"
##      "negative regulation of viral release from host cell"
##      "RNA processing"

```

```

## "positive regulation of smooth muscle contraction"
## "ventricular septum morphogenesis"
## "telomere maintenance"
## "activation of innate immune response"
## "regulation of stress fiber assembly"
## "interleukin-6-mediated signaling pathway"
## "wound healing"
## "histone mRNA metabolic process"
## "visual learning"
## "Ras protein signal transduction"
## "positive regulation of protein kinase activity"
## "phosphatidylinositol-3-phosphate biosynthetic process"
## "phagocytosis, engulfment"
## "pre-mRNA cleavage required for polyadenylation"
## "spliceosomal snRNP assembly"
## "epidermal growth factor receptor signaling pathway"
## "sensory perception of pain"
## "positive chemotaxis"
## "positive regulation of epithelial to mesenchymal transition"
## "eating behavior"
## "lymphocyte chemotaxis"
## "defense response to virus"
## "spliceosomal complex assembly"
## "positive regulation of vascular endothelial growth factor production"
## "cytokine-mediated signaling pathway"
## "hormone-mediated signaling pathway"
## "positive regulation of cell cycle"
## "regulation of cell growth"
## "adenylate cyclase-activating dopamine receptor signaling pathway"
## "cell adhesion"
## "negative regulation of adenylate cyclase activity"
## "leukocyte chemotaxis"
## "ATP-dependent chromatin remodeling"
## "in utero embryonic development"
## "positive regulation of protein localization to nucleus"
## "positive regulation of phosphatidylinositol 3-kinase activity"
## "alternative mRNA splicing, via spliceosome"
## "cell migration"
## "regulation of mitotic cell cycle"
## "negative regulation of cell proliferation"
## "phosphatidylinositol phosphorylation"
## "vasoconstriction"
## "positive regulation of protein kinase B signaling"
## "RNA export from nucleus"
## "microtubule-based movement"
## "regulation of cell migration"
## "positive regulation of peptidyl-tyrosine phosphorylation"
## "animal organ morphogenesis"
## "centrosome cycle"
## "peptidyl-tyrosine phosphorylation"
## "regulation of sensory perception of pain"
## "monocyte chemotaxis"
## "cellular response to lipopolysaccharide"
## "skeletal system development"

```

```

## "positive regulation of Notch signaling pathway"
## "mRNA cis splicing, via spliceosome"
## "androgen receptor signaling pathway"
## "positive regulation of Rho protein signal transduction"
## "rRNA processing"
## "positive regulation of stress fiber assembly"
## "leukocyte migration"
## "chromatin remodeling"
## "positive regulation of phosphatidylinositol 3-kinase signaling"
## "activation of phospholipase C activity"
## "vascular endothelial growth factor receptor signaling pathway"
## "cellular response to transforming growth factor beta stimulus"
## "positive regulation of cell proliferation"
## "platelet activation"
## "regulation of cell proliferation"
## "7-methylguanosine mRNA capping"
## "axon guidance"
## "feeding behavior"
## "positive regulation of ERK1 and ERK2 cascade"
## "mRNA processing"
## "heart development"
## "positive regulation of cell migration"
## "cell division"
## "keratinization"
## "cell differentiation"
## "cytoplasmic translation"
## "rhythmic process"
## "DNA replication"
## "fibroblast growth factor receptor signaling pathway"
## "regulation of alternative mRNA splicing, via spliceosome"
## "T cell costimulation"
## "angiogenesis"
## "neutrophil chemotaxis"
## "detection of chemical stimulus involved in sensory perception of bitter taste"
## "termination of RNA polymerase II transcription"
## "adenylate cyclase-modulating G protein-coupled receptor signaling pathway"
## "innate immune response"
## "transcription elongation from RNA polymerase II promoter"
## "translational initiation"
## "positive regulation of angiogenesis"
## "cell surface receptor signaling pathway"
## "chemical synaptic transmission"
## "calcium-mediated signaling"
## "positive regulation of cytosolic calcium ion concentration involved in phospholipid metabolism"
## "RNA metabolic process"
## "cell chemotaxis"
## "transcription initiation from RNA polymerase II promoter"
## "chemokine-mediated signaling pathway"
## "RNA splicing"
## "snRNA transcription by RNA polymerase II"
## "cell-cell signaling"
## "chemotaxis"
## "G protein-coupled receptor signaling pathway, coupled to cyclic nucleotide second messenger"
## "adenylate cyclase-activating G protein-coupled receptor signaling pathway"

```

```

## "mRNA export from nucleus"
## "mRNA 3'-end processing"
## "negative regulation of transcription, DNA-templated"
## "multicellular organism development"
## "positive regulation of transcription, DNA-templated"
## "adenylate cyclase-inhibiting G protein-coupled receptor signaling pathway"
## "regulation of signaling receptor activity"
## "immune response"
## "phospholipase C-activating G protein-coupled receptor signaling pathway"
## "cell proliferation"
## "signal transduction"
## "SRP-dependent cotranslational protein targeting to membrane"
## "nuclear-transcribed mRNA catabolic process, nonsense-mediated decay"
## "negative regulation of transcription by RNA polymerase II"
## "regulation of transcription, DNA-templated"
## "transcription by RNA polymerase II"
## "inflammatory response"
## "neuropeptide signaling pathway"
## "positive regulation of cytosolic calcium ion concentration"
## "positive regulation of transcription by RNA polymerase II"
## "mRNA splicing, via spliceosome"
## "regulation of transcription by RNA polymerase II"
## "G protein-coupled receptor signaling pathway"
## "transcription, DNA-templated"
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##	"6.74"	"50"	"20.8"	"4.332"
##	"6.722"	"95"	"47.85"	"7.014"
##	"6.7"	"8"	"1.3"	"0.99"
##	"6.691"	"14"	"3.13"	"1.625"
##	"6.665"	"197"	"123.92"	"10.965"
##	"6.664"	"21"	"5.94"	"2.26"
##	"6.653"	"24"	"6.98"	"2.558"
##	"6.636"	"45"	"18.07"	"4.058"
##	"6.619"	"37"	"12.57"	"3.691"
##	"6.617"	"52"	"22.86"	"4.404"
##	"6.616"	"20"	"5.58"	"2.18"
##	"6.591"	"23"	"5.97"	"2.584"
##	"6.562"	"48"	"21"	"4.115"
##	"6.558"	"42"	"15.69"	"4.012"
##	"6.55"	"7"	"0.45"	"0.657"
##	"6.549"	"32"	"11.23"	"3.171"
##	"6.542"	"65"	"32.14"	"5.023"
##	"6.541"	"130"	"74.7"	"8.455"
##	"6.531"	"39"	"15.66"	"3.574"
##	"6.525"	"25"	"7.33"	"2.708"
##	"6.51"	"44"	"18.14"	"3.972"
##	"6.507"	"8"	"1.18"	"1.048"
##	"6.5"	"13"	"2.39"	"1.632"
##	"6.49"	"8"	"1.51"	"0.98"
##	"6.489"	"28"	"9.18"	"2.9"
##	"6.487"	"39"	"15.56"	"3.613"
##	"6.468"	"229"	"151.4"	"11.997"

##	"6.464"	"63"	"28.04"	"5.408"
##	"6.458"	"29"	"9.77"	"2.978"
##	"6.437"	"43"	"17.52"	"3.958"
##	"6.426"	"49"	"21.8"	"4.233"
##	"6.413"	"26"	"9.32"	"2.601"
##	"6.413"	"21"	"5.92"	"2.351"
##	"6.408"	"289"	"201.52"	"13.653"
##	"6.391"	"91"	"48.69"	"6.621"
##	"6.351"	"603"	"463.73"	"21.927"
##	"6.35"	"53"	"23.93"	"4.578"
##	"6.35"	"53"	"23.93"	"4.578"
##	"6.35"	"53"	"23.93"	"4.578"
##	"6.35"	"292"	"208.2"	"13.198"
##	"6.344"	"43"	"17.77"	"3.977"
##	"6.34"	"65"	"31.87"	"5.226"
##	"6.3"	"7"	"0.7"	"0.882"
##	"6.284"	"35"	"12.5"	"3.58"
##	"6.27"	"137"	"83.13"	"8.591"
##	"6.268"	"33"	"12.5"	"3.271"
##	"6.264"	"9"	"1.61"	"1.18"
##	"6.263"	"27"	"9.5"	"2.794"
##	"6.228"	"51"	"22.59"	"4.562"
##	"6.209"	"23"	"7.3"	"2.529"
##	"6.193"	"49"	"21.1"	"4.505"
##	"6.15"	"14"	"2.92"	"1.802"
##	"6.127"	"19"	"5.76"	"2.161"
##	"6.126"	"13"	"2.38"	"1.734"
##	"6.126"	"13"	"2.38"	"1.734"
##	"6.093"	"47"	"20.3"	"4.382"
##	"6.083"	"19"	"5.82"	"2.167"
##	"6.077"	"56"	"28.19"	"4.576"
##	"6.075"	"28"	"9.63"	"3.024"
##	"6.074"	"19"	"5.5"	"2.222"
##	"6.074"	"19"	"5.5"	"2.222"
##	"6.067"	"19"	"4.93"	"2.319"
##	"6.056"	"84"	"46.29"	"6.227"
##	"6.051"	"65"	"32.42"	"5.385"
##	"6.049"	"64"	"30.58"	"5.525"
##	"6.027"	"13"	"2.85"	"1.684"
##	"6.022"	"113"	"64.75"	"8.012"
##	"6.016"	"183"	"124.65"	"9.7"
##	"6.013"	"72"	"36.72"	"5.867"
##	"6.013"	"26"	"9.05"	"2.819"
##	"6"	"227"	"151.34"	"12.609"
##	"5.996"	"72"	"34.24"	"6.298"
##	"5.975"	"289"	"203.36"	"14.333"
##	"5.945"	"24"	"7.59"	"2.76"
##	"5.944"	"27"	"11.05"	"2.683"
##	"5.944"	"27"	"11.05"	"2.683"
##	"5.944"	"27"	"11.05"	"2.683"
##	"5.875"	"7"	"0.98"	"1.025"
##	"5.874"	"58"	"27.64"	"5.169"
##	"5.868"	"46"	"20.73"	"4.306"
##	"5.857"	"18"	"5.38"	"2.155"

##	"5.854"	"66"	"34.18"	"5.435"
##	"5.843"	"27"	"8.96"	"3.088"
##	"5.843"	"27"	"8.96"	"3.088"
##	"5.832"	"98"	"53.28"	"7.667"
##	"5.823"	"25"	"9.37"	"2.684"
##	"5.823"	"10"	"2.11"	"1.355"
##	"5.811"	"36"	"15.27"	"3.567"
##	"5.81"	"6"	"0.19"	"0.419"
##	"5.801"	"27"	"10.19"	"2.898"
##	"5.801"	"27"	"10.19"	"2.898"
##	"5.801"	"27"	"10.19"	"2.898"
##	"5.801"	"27"	"10.19"	"2.898"
##	"5.798"	"373"	"291.49"	"14.059"
##	"5.796"	"100"	"59.94"	"6.912"
##	"5.773"	"95"	"55.2"	"6.895"
##	"5.765"	"18"	"5.41"	"2.184"
##	"5.765"	"18"	"5.41"	"2.184"
##	"5.754"	"14"	"3.51"	"1.823"
##	"5.741"	"27"	"9.57"	"3.036"
##	"5.733"	"53"	"25.21"	"4.848"
##	"5.716"	"75"	"41.68"	"5.829"
##	"5.715"	"14"	"3.65"	"1.811"
##	"5.7"	"183"	"124.84"	"10.204"
##	"5.674"	"53"	"22.53"	"5.37"
##	"5.662"	"63"	"31.83"	"5.505"
##	"5.658"	"36"	"15.35"	"3.65"
##	"5.651"	"49"	"23.77"	"4.465"
##	"5.646"	"69"	"36.96"	"5.675"
##	"5.637"	"28"	"9.33"	"3.312"
##	"5.631"	"36"	"16.19"	"3.518"
##	"5.625"	"69"	"38.37"	"5.445"
##	"5.624"	"22"	"6.51"	"2.754"
##	"5.607"	"71"	"38.64"	"5.771"
##	"5.591"	"83"	"44.52"	"6.882"
##	"5.58"	"6"	"0.42"	"0.699"
##	"5.58"	"6"	"0.42"	"0.699"
##	"5.58"	"6"	"0.42"	"0.699"
##	"5.565"	"76"	"45.15"	"5.544"
##	"5.554"	"131"	"86.83"	"7.953"
##	"5.549"	"37"	"14.96"	"3.972"
##	"5.545"	"27"	"10.88"	"2.907"
##	"5.518"	"30"	"12.2"	"3.226"
##	"5.514"	"54"	"28.17"	"4.684"
##	"5.505"	"17"	"5.15"	"2.153"
##	"5.495"	"13"	"2.93"	"1.833"
##	"5.494"	"36"	"16.21"	"3.602"
##	"5.488"	"29"	"11.28"	"3.229"
##	"5.477"	"8"	"1.69"	"1.152"
##	"5.474"	"29"	"11.94"	"3.117"
##	"5.448"	"133"	"85.15"	"8.783"
##	"5.443"	"63"	"36.75"	"4.823"
##	"5.426"	"15"	"3.71"	"2.081"
##	"5.416"	"45"	"20.64"	"4.498"
##	"5.414"	"31"	"13.43"	"3.245"

##	"5.41"	"108"	"65.96"	"7.771"
##	"5.406"	"27"	"11.7"	"2.83"
##	"5.403"	"56"	"26.54"	"5.452"
##	"5.4"	"94"	"56.24"	"6.992"
##	"5.395"	"25"	"9.66"	"2.843"
##	"5.387"	"89"	"52.28"	"6.817"
##	"5.386"	"37"	"17.03"	"3.708"
##	"5.384"	"24"	"8.04"	"2.964"
##	"5.382"	"58"	"30.4"	"5.129"
##	"5.373"	"100"	"60.81"	"7.294"
##	"5.365"	"37"	"16.19"	"3.879"
##	"5.358"	"26"	"9.09"	"3.156"
##	"5.358"	"26"	"9.09"	"3.156"
##	"5.348"	"15"	"4.33"	"1.995"
##	"5.346"	"27"	"11.94"	"2.817"
##	"5.339"	"28"	"11.47"	"3.096"
##	"5.339"	"28"	"11.47"	"3.096"
##	"5.331"	"26"	"9.11"	"3.168"
##	"5.325"	"26"	"9.1"	"3.173"
##	"5.324"	"27"	"11.01"	"3.003"
##	"5.322"	"63"	"32.12"	"5.802"
##	"5.291"	"14"	"4.28"	"1.837"
##	"5.277"	"12"	"3"	"1.706"
##	"5.271"	"27"	"9.44"	"3.331"
##	"5.26"	"44"	"21.01"	"4.37"
##	"5.246"	"40"	"18.79"	"4.043"
##	"5.242"	"25"	"9.81"	"2.898"
##	"5.235"	"168"	"115.82"	"9.968"
##	"5.228"	"36"	"15.61"	"3.9"
##	"5.223"	"27"	"11.41"	"2.985"
##	"5.218"	"14"	"3.83"	"1.949"
##	"5.218"	"14"	"3.83"	"1.949"
##	"5.213"	"16"	"4.94"	"2.122"
##	"5.211"	"141"	"90.67"	"9.658"
##	"5.206"	"27"	"11.27"	"3.021"
##	"5.199"	"28"	"11.7"	"3.135"
##	"5.19"	"6"	"0.81"	"0.873"
##	"5.177"	"38"	"18.22"	"3.821"
##	"5.172"	"86"	"50.12"	"6.937"
##	"5.17"	"67"	"36.88"	"5.826"
##	"5.163"	"24"	"10.61"	"2.593"
##	"5.153"	"9"	"2.63"	"1.236"
##	"5.143"	"31"	"13.41"	"3.42"
##	"5.138"	"37"	"18.41"	"3.618"
##	"5.135"	"105"	"62.58"	"8.261"
##	"5.122"	"32"	"13.2"	"3.671"
##	"5.122"	"16"	"4.93"	"2.161"
##	"5.12"	"20"	"7.12"	"2.516"
##	"5.117"	"76"	"44.24"	"6.207"
##	"5.113"	"21"	"8.86"	"2.374"
##	"5.096"	"11"	"2.94"	"1.582"
##	"5.078"	"24"	"9.52"	"2.851"
##	"5.066"	"28"	"11.75"	"3.208"
##	"5.064"	"69"	"38.08"	"6.106"

##	"5.041"	"40"	"19.61"	"4.045"
##	"5.031"	"30"	"13.2"	"3.339"
##	"5.011"	"14"	"4.3"	"1.936"
##	"5.001"	"45"	"22.37"	"4.525"
##	"4.991"	"66"	"38.62"	"5.486"
##	"4.991"	"17"	"6.35"	"2.134"
##	"4.99"	"16"	"5.27"	"2.15"
##	"4.99"	"16"	"5.27"	"2.15"
##	"4.99"	"16"	"5.27"	"2.15"
##	"4.976"	"13"	"3.88"	"1.833"
##	"4.974"	"17"	"5.7"	"2.272"
##	"4.967"	"27"	"11.95"	"3.03"
##	"4.964"	"23"	"8.36"	"2.949"
##	"4.963"	"116"	"75.77"	"8.106"
##	"4.961"	"648"	"514.84"	"26.842"
##	"4.961"	"196"	"135.02"	"12.292"
##	"4.957"	"15"	"4.11"	"2.197"
##	"4.957"	"15"	"4.11"	"2.197"
##	"4.953"	"12"	"2.96"	"1.825"
##	"4.947"	"58"	"30.7"	"5.519"
##	"4.941"	"38"	"17.75"	"4.098"
##	"4.91"	"192"	"134.96"	"11.617"
##	"4.886"	"49"	"24.99"	"4.914"
##	"4.876"	"20"	"7.19"	"2.627"
##	"4.86"	"31"	"15.04"	"3.284"
##	"4.86"	"31"	"15.04"	"3.284"
##	"4.855"	"110"	"72.19"	"7.787"
##	"4.847"	"29"	"13.74"	"3.148"
##	"4.833"	"15"	"4.42"	"2.189"
##	"4.826"	"41"	"20.84"	"4.177"
##	"4.819"	"28"	"13.64"	"2.98"
##	"4.816"	"37"	"18.34"	"3.875"
##	"4.815"	"48"	"24.99"	"4.779"
##	"4.801"	"60"	"33.47"	"5.526"
##	"4.797"	"20"	"8.17"	"2.466"
##	"4.772"	"61"	"34.12"	"5.632"
##	"4.77"	"5"	"0.23"	"0.468"
##	"4.756"	"21"	"9.46"	"2.426"
##	"4.747"	"28"	"12.37"	"3.293"
##	"4.738"	"91"	"59.12"	"6.729"
##	"4.728"	"17"	"5.71"	"2.388"
##	"4.715"	"44"	"22.04"	"4.658"
##	"4.715"	"21"	"8.11"	"2.734"
##	"4.71"	"25"	"10.72"	"3.032"
##	"4.708"	"10"	"2.28"	"1.64"
##	"4.683"	"15"	"4.7"	"2.2"
##	"4.681"	"13"	"3.56"	"2.017"
##	"4.666"	"31"	"13.77"	"3.692"
##	"4.665"	"169"	"120.16"	"10.47"
##	"4.665"	"8"	"1.56"	"1.38"
##	"4.665"	"8"	"1.56"	"1.38"
##	"4.664"	"65"	"38.61"	"5.658"
##	"4.66"	"23"	"9.08"	"2.987"
##	"4.657"	"55"	"29.43"	"5.491"

##	"4.642"	"129"	"85.64"	"9.34"
##	"4.64"	"16"	"5.52"	"2.258"
##	"4.64"	"30"	"14.09"	"3.429"
##	"4.629"	"68"	"40.71"	"5.895"
##	"4.628"	"32"	"15.32"	"3.604"
##	"4.628"	"16"	"5.77"	"2.21"
##	"4.628"	"16"	"5.77"	"2.21"
##	"4.628"	"16"	"5.77"	"2.21"
##	"4.628"	"16"	"5.77"	"2.21"
##	"4.622"	"39"	"20.62"	"3.977"
##	"4.621"	"35"	"17.74"	"3.735"
##	"4.617"	"85"	"56.45"	"6.183"
##	"4.616"	"28"	"12.65"	"3.325"
##	"4.615"	"28"	"12.54"	"3.35"
##	"4.588"	"29"	"12.93"	"3.503"
##	"4.576"	"103"	"66.09"	"8.066"
##	"4.571"	"19"	"7.31"	"2.557"
##	"4.569"	"23"	"8.56"	"3.16"
##	"4.559"	"71"	"42.8"	"6.186"
##	"4.556"	"26"	"11.59"	"3.163"
##	"4.55"	"76"	"45.89"	"6.618"
##	"4.546"	"26"	"10.46"	"3.418"
##	"4.546"	"8"	"1.93"	"1.335"
##	"4.545"	"38"	"18.11"	"4.376"
##	"4.543"	"27"	"10.52"	"3.628"
##	"4.542"	"27"	"11.57"	"3.397"
##	"4.534"	"13"	"3.99"	"1.987"
##	"4.53"	"5"	"0.47"	"0.643"
##	"4.519"	"99"	"68.49"	"6.752"
##	"4.512"	"28"	"13.13"	"3.296"
##	"4.507"	"18"	"6.83"	"2.478"
##	"4.507"	"18"	"6.83"	"2.478"
##	"4.507"	"18"	"6.83"	"2.478"
##	"4.503"	"39"	"20.33"	"4.146"
##	"4.501"	"21"	"8.79"	"2.713"
##	"4.501"	"15"	"4.81"	"2.264"
##	"4.491"	"15"	"4.73"	"2.287"
##	"4.484"	"18"	"6.67"	"2.527"
##	"4.472"	"27"	"12.23"	"3.302"
##	"4.467"	"58"	"33.27"	"5.536"
##	"4.466"	"14"	"4.51"	"2.125"
##	"4.466"	"14"	"4.51"	"2.125"
##	"4.459"	"25"	"9.55"	"3.465"
##	"4.451"	"19"	"7.32"	"2.624"
##	"4.437"	"121"	"79.27"	"9.405"
##	"4.428"	"38"	"19.06"	"4.278"
##	"4.42"	"8"	"1.92"	"1.376"
##	"4.418"	"20"	"8.45"	"2.615"
##	"4.408"	"31"	"16.05"	"3.392"
##	"4.396"	"55"	"31.71"	"5.298"
##	"4.39"	"8"	"2.19"	"1.323"
##	"4.386"	"20"	"6.94"	"2.977"
##	"4.379"	"24"	"10.3"	"3.129"
##	"4.379"	"31"	"15.83"	"3.464"

##	"4.378"	"14"	"4.84"	"2.092"
##	"4.372"	"17"	"6.3"	"2.447"
##	"4.371"	"21"	"8.89"	"2.77"
##	"4.369"	"26"	"11.12"	"3.406"
##	"4.338"	"52"	"28.81"	"5.346"
##	"4.335"	"23"	"9.75"	"3.056"
##	"4.334"	"17"	"6.6"	"2.399"
##	"4.332"	"90"	"59.94"	"6.94"
##	"4.329"	"20"	"6.64"	"3.086"
##	"4.29"	"179"	"130.22"	"11.37"
##	"4.29"	"34"	"18.08"	"3.711"
##	"4.28"	"5"	"0.72"	"0.78"
##	"4.278"	"29"	"13.93"	"3.523"
##	"4.278"	"29"	"13.93"	"3.523"
##	"4.273"	"36"	"19.09"	"3.957"
##	"4.27"	"63"	"38.35"	"5.772"
##	"4.248"	"144"	"101.21"	"10.074"
##	"4.243"	"21"	"7.78"	"3.116"
##	"4.236"	"11"	"3.24"	"1.832"
##	"4.235"	"29"	"14.29"	"3.474"
##	"4.229"	"147"	"103.76"	"10.224"
##	"4.228"	"27"	"11.51"	"3.664"
##	"4.224"	"37"	"19.81"	"4.069"
##	"4.219"	"22"	"9.77"	"2.898"
##	"4.211"	"59"	"35.17"	"5.659"
##	"4.209"	"234"	"185.37"	"11.553"
##	"4.202"	"52"	"30.07"	"5.219"
##	"4.19"	"119"	"85.03"	"8.107"
##	"4.179"	"29"	"13.99"	"3.592"
##	"4.176"	"29"	"13.45"	"3.724"
##	"4.176"	"63"	"38.27"	"5.922"
##	"4.16"	"57"	"33.01"	"5.767"
##	"4.153"	"14"	"5.31"	"2.092"
##	"4.153"	"14"	"5.31"	"2.092"
##	"4.153"	"14"	"5.31"	"2.092"
##	"4.145"	"67"	"40.55"	"6.381"
##	"4.14"	"5"	"0.86"	"0.899"
##	"4.135"	"66"	"41.04"	"6.037"
##	"4.13"	"5"	"0.87"	"0.872"
##	"4.12"	"16"	"5.85"	"2.463"
##	"4.119"	"60"	"37.6"	"5.438"
##	"4.116"	"19"	"7.97"	"2.68"
##	"4.11"	"148"	"105.85"	"10.256"
##	"4.107"	"114"	"75.7"	"9.326"
##	"4.106"	"44"	"23.99"	"4.873"
##	"4.096"	"428"	"356.52"	"17.452"
##	"4.095"	"24"	"11.63"	"3.021"
##	"4.076"	"12"	"3.9"	"1.987"
##	"4.076"	"63"	"38.87"	"5.92"
##	"4.073"	"64"	"40.16"	"5.853"
##	"4.07"	"87"	"58.21"	"7.074"
##	"4.066"	"13"	"5.07"	"1.95"
##	"4.06"	"33"	"16.48"	"4.069"
##	"4.058"	"23"	"10.49"	"3.083"

##	"4.055"	"72"	"43.94"	"6.919"
##	"4.053"	"9"	"2.78"	"1.535"
##	"4.048"	"29"	"14.39"	"3.609"
##	"4.043"	"12"	"3.92"	"1.998"
##	"4.04"	"79"	"53.67"	"6.27"
##	"4.037"	"67"	"43.85"	"5.734"
##	"4.031"	"19"	"8.74"	"2.545"
##	"4.03"	"316"	"258.8"	"14.193"
##	"4.025"	"296"	"232.8"	"15.702"
##	"4.022"	"10"	"3.52"	"1.611"
##	"4.015"	"23"	"9.73"	"3.306"
##	"4.009"	"393"	"318.17"	"18.664"
##	"4.003"	"286"	"226.72"	"14.809"
##	"3.998"	"32"	"16.95"	"3.764"
##	"3.995"	"42"	"24.19"	"4.458"
##	"3.992"	"73"	"43.36"	"7.426"
##	"3.991"	"81"	"50.78"	"7.571"
##	"3.99"	"24"	"11.34"	"3.173"
##	"3.986"	"130"	"94.32"	"8.952"
##	"3.986"	"33"	"16.74"	"4.079"
##	"3.974"	"65"	"42.75"	"5.598"
##	"3.968"	"72"	"45.41"	"6.702"
##	"3.962"	"23"	"10.17"	"3.238"
##	"3.961"	"81"	"50.71"	"7.647"
##	"3.96"	"36"	"19.57"	"4.149"
##	"3.957"	"15"	"6.11"	"2.247"
##	"3.949"	"17"	"7.92"	"2.299"
##	"3.949"	"17"	"7.04"	"2.522"
##	"3.948"	"33"	"17.06"	"4.037"
##	"3.948"	"33"	"17.06"	"4.037"
##	"3.936"	"12"	"4.69"	"1.857"
##	"3.927"	"34"	"18.33"	"3.99"
##	"3.926"	"88"	"58.87"	"7.42"
##	"3.925"	"41"	"23.18"	"4.54"
##	"3.925"	"12"	"4.1"	"2.013"
##	"3.912"	"23"	"10.14"	"3.288"
##	"3.895"	"16"	"6.37"	"2.473"
##	"3.891"	"16"	"6.19"	"2.521"
##	"3.89"	"35"	"18.62"	"4.211"
##	"3.877"	"35"	"19.12"	"4.096"
##	"3.877"	"35"	"19.12"	"4.096"
##	"3.876"	"16"	"6.27"	"2.51"
##	"3.873"	"23"	"10.68"	"3.181"
##	"3.87"	"84"	"57.87"	"6.752"
##	"3.864"	"23"	"10.11"	"3.336"
##	"3.857"	"45"	"26.47"	"4.804"
##	"3.855"	"203"	"153.03"	"12.963"
##	"3.85"	"28"	"13.01"	"3.894"
##	"3.844"	"135"	"96.25"	"10.08"
##	"3.839"	"22"	"9.96"	"3.136"
##	"3.834"	"17"	"6.76"	"2.671"
##	"3.833"	"11"	"3.84"	"1.868"
##	"3.833"	"81"	"54.41"	"6.937"
##	"3.828"	"57"	"35.74"	"5.553"

##	"3.826"	"21"	"9.47"	"3.013"
##	"3.826"	"23"	"10.51"	"3.264"
##	"3.817"	"82"	"56.31"	"6.731"
##	"3.814"	"20"	"9.73"	"2.693"
##	"3.809"	"31"	"17.86"	"3.45"
##	"3.809"	"10"	"2.85"	"1.877"
##	"3.806"	"13"	"4.88"	"2.133"
##	"3.804"	"45"	"25.74"	"5.062"
##	"3.8"	"5"	"1.2"	"0.974"
##	"3.799"	"27"	"14.26"	"3.353"
##	"3.798"	"46"	"26.82"	"5.05"
##	"3.796"	"32"	"16.31"	"4.133"
##	"3.792"	"72"	"49.97"	"5.809"
##	"3.792"	"113"	"82.22"	"8.116"
##	"3.79"	"26"	"13.8"	"3.219"
##	"3.781"	"8"	"2.1"	"1.56"
##	"3.781"	"8"	"2.1"	"1.56"
##	"3.781"	"10"	"3.38"	"1.751"
##	"3.773"	"9"	"2.87"	"1.625"
##	"3.768"	"14"	"5.58"	"2.235"
##	"3.767"	"70"	"45.14"	"6.6"
##	"3.753"	"118"	"83.43"	"9.212"
##	"3.748"	"11"	"3.91"	"1.891"
##	"3.74"	"103"	"76.97"	"6.959"
##	"3.736"	"21"	"9.29"	"3.134"
##	"3.735"	"9"	"2.83"	"1.652"
##	"3.729"	"35"	"19.04"	"4.28"
##	"3.721"	"31"	"17.13"	"3.727"
##	"3.72"	"62"	"38.47"	"6.325"
##	"3.712"	"10"	"3.02"	"1.88"
##	"3.709"	"41"	"23.61"	"4.688"
##	"3.708"	"31"	"16.8"	"3.83"
##	"3.706"	"38"	"20.38"	"4.754"
##	"3.7"	"164"	"128.04"	"9.718"
##	"3.689"	"93"	"65.58"	"7.432"
##	"3.688"	"34"	"18.11"	"4.309"
##	"3.687"	"13"	"4.92"	"2.191"
##	"3.681"	"14"	"5.43"	"2.328"
##	"3.668"	"29"	"14.95"	"3.831"
##	"3.661"	"26"	"13.16"	"3.507"
##	"3.656"	"53"	"33.83"	"5.244"
##	"3.653"	"29"	"16.45"	"3.436"
##	"3.652"	"71"	"46.71"	"6.65"
##	"3.652"	"28"	"15.92"	"3.308"
##	"3.652"	"13"	"4.38"	"2.36"
##	"3.65"	"25"	"11.94"	"3.578"
##	"3.644"	"703"	"626.11"	"21.099"
##	"3.636"	"34"	"19.01"	"4.123"
##	"3.632"	"21"	"10.18"	"2.979"
##	"3.631"	"45"	"25.52"	"5.364"
##	"3.629"	"22"	"11.74"	"2.827"
##	"3.629"	"149"	"110.3"	"10.665"
##	"3.628"	"44"	"24.59"	"5.351"
##	"3.628"	"28"	"14.5"	"3.721"

##	"3.621"	"47"	"28.25"	"5.178"
##	"3.616"	"55"	"34.43"	"5.689"
##	"3.607"	"12"	"4.08"	"2.196"
##	"3.604"	"55"	"34.63"	"5.653"
##	"3.598"	"32"	"17.11"	"4.139"
##	"3.584"	"14"	"6.11"	"2.201"
##	"3.572"	"89"	"63.27"	"7.202"
##	"3.571"	"56"	"35.53"	"5.732"
##	"3.571"	"62"	"39.82"	"6.211"
##	"3.569"	"22"	"10.34"	"3.267"
##	"3.559"	"5"	"1.3"	"1.04"
##	"3.559"	"40"	"22.81"	"4.83"
##	"3.557"	"65"	"44.35"	"5.806"
##	"3.555"	"49"	"31.88"	"4.816"
##	"3.553"	"25"	"12.1"	"3.631"
##	"3.54"	"4"	"0.46"	"0.688"
##	"3.536"	"23"	"10.92"	"3.416"
##	"3.53"	"41"	"24.63"	"4.638"
##	"3.527"	"9"	"2.8"	"1.758"
##	"3.523"	"70"	"47.67"	"6.339"
##	"3.519"	"19"	"8.96"	"2.853"
##	"3.515"	"35"	"20.71"	"4.066"
##	"3.508"	"21"	"10.21"	"3.076"
##	"3.508"	"65"	"43.56"	"6.112"
##	"3.503"	"28"	"14.46"	"3.865"
##	"3.498"	"33"	"18.37"	"4.182"
##	"3.492"	"31"	"17.53"	"3.857"
##	"3.492"	"57"	"37.72"	"5.521"
##	"3.483"	"87"	"60.98"	"7.47"
##	"3.481"	"9"	"3.35"	"1.623"
##	"3.481"	"9"	"3.35"	"1.623"
##	"3.477"	"91"	"67.39"	"6.791"
##	"3.471"	"172"	"131.16"	"11.765"
##	"3.468"	"57"	"37.75"	"5.551"
##	"3.468"	"57"	"38.13"	"5.441"
##	"3.464"	"18"	"8.38"	"2.777"
##	"3.461"	"40"	"23.63"	"4.73"
##	"3.45"	"4"	"0.55"	"0.702"
##	"3.449"	"15"	"6.85"	"2.363"
##	"3.449"	"134"	"100.72"	"9.649"
##	"3.446"	"14"	"6.06"	"2.304"
##	"3.445"	"15"	"6.43"	"2.487"
##	"3.439"	"15"	"6.25"	"2.544"
##	"3.421"	"35"	"19"	"4.677"
##	"3.421"	"35"	"19"	"4.677"
##	"3.419"	"14"	"5.18"	"2.58"
##	"3.417"	"58"	"37.53"	"5.991"
##	"3.414"	"12"	"4.46"	"2.208"
##	"3.414"	"14"	"5.84"	"2.39"
##	"3.411"	"10"	"3.71"	"1.844"
##	"3.403"	"22"	"11.29"	"3.147"
##	"3.399"	"23"	"12.12"	"3.201"
##	"3.393"	"35"	"20.77"	"4.194"
##	"3.391"	"19"	"9.42"	"2.825"

##	"3.388"	"14"	"6.28"	"2.279"
##	"3.386"	"23"	"12.11"	"3.216"
##	"3.386"	"39"	"22.52"	"4.867"
##	"3.386"	"6"	"1.86"	"1.223"
##	"3.384"	"92"	"63.86"	"8.316"
##	"3.379"	"87"	"62.75"	"7.177"
##	"3.364"	"52"	"34.75"	"5.127"
##	"3.353"	"7"	"2.22"	"1.425"
##	"3.352"	"8"	"3.25"	"1.417"
##	"3.352"	"8"	"3.25"	"1.417"
##	"3.351"	"70"	"48.85"	"6.312"
##	"3.35"	"409"	"340.86"	"20.341"
##	"3.348"	"32"	"18.01"	"4.179"
##	"3.348"	"32"	"18.01"	"4.179"
##	"3.341"	"64"	"43.42"	"6.16"
##	"3.33"	"4"	"0.67"	"0.779"
##	"3.328"	"66"	"46.74"	"5.787"
##	"3.32"	"16"	"7.39"	"2.593"
##	"3.307"	"20"	"10.24"	"2.951"
##	"3.297"	"20"	"9.24"	"3.263"
##	"3.293"	"28"	"14.77"	"4.017"
##	"3.29"	"20"	"9.75"	"3.115"
##	"3.285"	"46"	"30.72"	"4.652"
##	"3.283"	"45"	"29.68"	"4.666"
##	"3.278"	"20"	"10.8"	"2.807"
##	"3.278"	"31"	"17.04"	"4.259"
##	"3.273"	"46"	"28.65"	"5.302"
##	"3.273"	"23"	"11.98"	"3.366"
##	"3.273"	"25"	"13.1"	"3.636"
##	"3.26"	"69"	"46.07"	"7.034"
##	"3.258"	"13"	"5.07"	"2.434"
##	"3.257"	"22"	"11.48"	"3.23"
##	"3.256"	"4"	"0.74"	"1.001"
##	"3.249"	"50"	"32.04"	"5.528"
##	"3.229"	"717"	"638.24"	"24.394"
##	"3.222"	"15"	"6.91"	"2.511"
##	"3.217"	"21"	"10.65"	"3.217"
##	"3.216"	"76"	"55.98"	"6.225"
##	"3.213"	"65"	"45.47"	"6.079"
##	"3.209"	"8"	"2.58"	"1.689"
##	"3.208"	"71"	"51.31"	"6.138"
##	"3.208"	"71"	"51.31"	"6.138"
##	"3.208"	"71"	"51.31"	"6.138"
##	"3.208"	"71"	"51.31"	"6.138"
##	"3.203"	"79"	"56.27"	"7.097"
##	"3.203"	"92"	"65.45"	"8.288"
##	"3.197"	"73"	"53.56"	"6.081"
##	"3.182"	"110"	"81.79"	"8.865"
##	"3.18"	"4"	"0.82"	"0.881"
##	"3.179"	"82"	"59.93"	"6.942"
##	"3.17"	"31"	"18.18"	"4.044"
##	"3.169"	"30"	"16.61"	"4.226"
##	"3.167"	"63"	"42.71"	"6.406"
##	"3.166"	"14"	"5.68"	"2.628"

##	"3.16"	"8"	"2.8"	"1.645"
##	"3.156"	"11"	"4.63"	"2.018"
##	"3.156"	"11"	"4.63"	"2.018"
##	"3.149"	"90"	"67.07"	"7.283"
##	"3.149"	"37"	"23.46"	"4.3"
##	"3.149"	"37"	"23.46"	"4.3"
##	"3.149"	"37"	"23.46"	"4.3"
##	"3.149"	"37"	"23.46"	"4.3"
##	"3.147"	"152"	"119.34"	"10.377"
##	"3.144"	"566"	"492.01"	"23.532"
##	"3.144"	"14"	"6.97"	"2.236"
##	"3.142"	"8"	"2.68"	"1.693"
##	"3.14"	"47"	"31.18"	"5.038"
##	"3.139"	"129"	"99.62"	"9.36"
##	"3.139"	"37"	"23.5"	"4.301"
##	"3.136"	"23"	"12.33"	"3.402"
##	"3.134"	"10"	"3.86"	"1.959"
##	"3.13"	"11"	"4.7"	"2.013"
##	"3.13"	"11"	"4.7"	"2.013"
##	"3.128"	"302"	"249.77"	"16.696"
##	"3.117"	"110"	"84.06"	"8.322"
##	"3.116"	"134"	"102.05"	"10.254"
##	"3.115"	"69"	"47.12"	"7.024"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.109"	"8"	"2.82"	"1.666"
##	"3.106"	"25"	"14.55"	"3.365"
##	"3.102"	"29"	"16.7"	"3.966"
##	"3.099"	"57"	"38.04"	"6.118"
##	"3.098"	"35"	"21.64"	"4.312"
##	"3.094"	"31"	"18.97"	"3.888"
##	"3.093"	"9"	"3.5"	"1.778"
##	"3.086"	"152"	"118.76"	"10.771"

##	"3.082"	"344"	"291.5"	"17.033"
##	"3.08"	"37"	"23.68"	"4.325"
##	"3.064"	"14"	"6.61"	"2.412"
##	"3.064"	"60"	"41.52"	"6.031"
##	"3.06"	"4"	"0.94"	"0.952"
##	"3.057"	"17"	"8.35"	"2.83"
##	"3.056"	"54"	"37.54"	"5.387"
##	"3.055"	"94"	"68.17"	"8.454"
##	"3.054"	"14"	"6.93"	"2.315"
##	"3.052"	"236"	"193.22"	"14.017"
##	"3.05"	"29"	"17.74"	"3.692"
##	"3.05"	"4"	"0.95"	"0.989"
##	"3.049"	"35"	"22.22"	"4.191"
##	"3.047"	"75"	"53.81"	"6.955"
##	"3.046"	"33"	"20.23"	"4.192"
##	"3.041"	"87"	"62.52"	"8.051"
##	"3.036"	"11"	"4.76"	"2.055"
##	"3.033"	"62"	"41.17"	"6.867"
##	"3.032"	"11"	"4.26"	"2.223"
##	"3.032"	"11"	"4.26"	"2.223"
##	"3.032"	"11"	"4.26"	"2.223"
##	"3.032"	"11"	"4.26"	"2.223"
##	"3.032"	"11"	"4.26"	"2.223"
##	"3.031"	"9"	"3.46"	"1.828"
##	"3.028"	"8"	"2.99"	"1.654"
##	"3.023"	"562"	"491.34"	"23.377"
##	"3.022"	"73"	"54.29"	"6.191"
##	"3.017"	"13"	"5.48"	"2.492"
##	"3.016"	"8"	"3.01"	"1.654"
##	"3.015"	"10"	"3.95"	"2.007"
##	"3.014"	"12"	"5.54"	"2.143"
##	"3.013"	"67"	"47.74"	"6.392"
##	"3.012"	"8"	"2.72"	"1.753"
##	"3.012"	"8"	"2.72"	"1.753"
##	"3.011"	"55"	"37.6"	"5.779"
##	"3.006"	"34"	"20.52"	"4.484"
##	"3.005"	"18"	"9.22"	"2.922"
##	"3.001"	"62"	"43.86"	"6.045"
##	"2.99"	"63"	"44.39"	"6.225"
##	"2.987"	"11"	"4.78"	"2.082"
##	"2.985"	"147"	"112.41"	"11.59"
##	"2.981"	"21"	"11.85"	"3.069"
##	"2.969"	"65"	"44.8"	"6.805"
##	"2.967"	"82"	"63.87"	"6.111"
##	"2.966"	"50"	"34.82"	"5.118"
##	"2.963"	"110"	"86.16"	"8.046"
##	"2.962"	"8"	"3.1"	"1.655"
##	"2.962"	"13"	"6.57"	"2.171"
##	"2.955"	"114"	"89.96"	"8.136"
##	"2.954"	"60"	"41.7"	"6.195"
##	"2.946"	"11"	"4.43"	"2.23"
##	"2.944"	"60"	"42.31"	"6.01"
##	"2.94"	"4"	"1.06"	"0.962"
##	"2.929"	"28"	"16.55"	"3.909"

##	"2.928"	"31"	"18.49"	"4.272"
##	"2.927"	"41"	"26.8"	"4.851"
##	"2.919"	"23"	"12.67"	"3.539"
##	"2.918"	"90"	"66.11"	"8.186"
##	"2.907"	"13"	"5.85"	"2.459"
##	"2.907"	"37"	"24.45"	"4.317"
##	"2.901"	"18"	"8.97"	"3.112"
##	"2.894"	"108"	"79.73"	"9.77"
##	"2.892"	"60"	"42.81"	"5.944"
##	"2.886"	"179"	"149.19"	"10.33"
##	"2.886"	"23"	"12.58"	"3.61"
##	"2.883"	"8"	"2.77"	"1.814"
##	"2.88"	"4"	"1.12"	"0.935"
##	"2.875"	"81"	"62.07"	"6.585"
##	"2.872"	"51"	"35.48"	"5.404"
##	"2.869"	"32"	"19.06"	"4.51"
##	"2.867"	"114"	"87.41"	"9.275"
##	"2.865"	"320"	"278.88"	"14.352"
##	"2.865"	"116"	"88.86"	"9.472"
##	"2.865"	"27"	"15.63"	"3.969"
##	"2.863"	"10"	"3.67"	"2.211"
##	"2.854"	"192"	"153.92"	"13.341"
##	"2.848"	"18"	"9.9"	"2.844"
##	"2.842"	"13"	"6.48"	"2.294"
##	"2.842"	"422"	"369.35"	"18.529"
##	"2.84"	"39"	"25.73"	"4.673"
##	"2.835"	"11"	"4.99"	"2.12"
##	"2.835"	"11"	"4.99"	"2.12"
##	"2.826"	"36"	"23.25"	"4.511"
##	"2.823"	"225"	"188.77"	"12.835"
##	"2.821"	"92"	"70.51"	"7.618"
##	"2.819"	"20"	"11.39"	"3.055"
##	"2.81"	"15"	"7.42"	"2.697"
##	"2.808"	"118"	"92.33"	"9.141"
##	"2.805"	"168"	"133.96"	"12.135"
##	"2.804"	"36"	"22.74"	"4.728"
##	"2.802"	"12"	"5.55"	"2.302"
##	"2.8"	"132"	"105.7"	"9.394"
##	"2.8"	"4"	"1.2"	"0.91"
##	"2.795"	"12"	"5.15"	"2.451"
##	"2.79"	"10"	"4.29"	"2.046"
##	"2.788"	"12"	"6.01"	"2.149"
##	"2.787"	"10"	"4.41"	"2.006"
##	"2.78"	"4"	"1.22"	"0.917"
##	"2.778"	"194"	"161.17"	"11.819"
##	"2.772"	"28"	"17.42"	"3.817"
##	"2.77"	"3"	"0.23"	"0.489"
##	"2.767"	"10"	"4.35"	"2.042"
##	"2.765"	"22"	"12.29"	"3.511"
##	"2.764"	"5"	"1.4"	"1.303"
##	"2.764"	"92"	"71.07"	"7.572"
##	"2.761"	"24"	"14.29"	"3.517"
##	"2.759"	"61"	"43.76"	"6.249"
##	"2.754"	"120"	"95.35"	"8.951"

##	"2.753"	"62"	"44.34"	"6.415"
##	"2.753"	"77"	"56.34"	"7.505"
##	"2.75"	"3"	"0.25"	"0.5"
##	"2.75"	"55"	"38.34"	"6.057"
##	"2.744"	"23"	"13.59"	"3.429"
##	"2.742"	"19"	"10.5"	"3.099"
##	"2.741"	"10"	"4.47"	"2.017"
##	"2.739"	"17"	"8.85"	"2.976"
##	"2.738"	"67"	"46.69"	"7.418"
##	"2.738"	"11"	"5.07"	"2.166"
##	"2.733"	"7"	"3.02"	"1.456"
##	"2.731"	"8"	"3.07"	"1.805"
##	"2.721"	"9"	"3.85"	"1.893"
##	"2.721"	"11"	"4.86"	"2.256"
##	"2.72"	"4"	"1.28"	"0.911"
##	"2.72"	"4"	"1.28"	"0.911"
##	"2.72"	"4"	"1.28"	"0.911"
##	"2.719"	"20"	"10.66"	"3.435"
##	"2.708"	"22"	"12.97"	"3.335"
##	"2.708"	"84"	"65"	"7.015"
##	"2.704"	"39"	"26.56"	"4.6"
##	"2.702"	"128"	"103.21"	"9.174"
##	"2.702"	"6"	"2.29"	"1.373"
##	"2.702"	"6"	"2.29"	"1.373"
##	"2.7"	"4"	"1.3"	"0.937"
##	"2.7"	"39"	"24.67"	"5.307"
##	"2.7"	"3"	"0.3"	"0.482"
##	"2.694"	"6"	"2.39"	"1.34"
##	"2.688"	"241"	"205.87"	"13.068"
##	"2.688"	"42"	"28.96"	"4.851"
##	"2.682"	"21"	"11.61"	"3.502"
##	"2.677"	"49"	"34.43"	"5.443"
##	"2.67"	"24"	"13.88"	"3.791"
##	"2.662"	"58"	"42.1"	"5.972"
##	"2.662"	"5"	"1.65"	"1.258"
##	"2.658"	"33"	"21.27"	"4.413"
##	"2.658"	"6"	"2.09"	"1.471"
##	"2.658"	"6"	"2.09"	"1.471"
##	"2.658"	"6"	"2.09"	"1.471"
##	"2.658"	"6"	"2.09"	"1.471"
##	"2.658"	"6"	"2.09"	"1.471"
##	"2.651"	"13"	"6.23"	"2.554"
##	"2.651"	"185"	"151.78"	"12.532"
##	"2.647"	"25"	"14.94"	"3.8"
##	"2.646"	"27"	"17.28"	"3.674"
##	"2.644"	"99"	"77.02"	"8.314"
##	"2.642"	"17"	"8.71"	"3.138"
##	"2.641"	"36"	"24.32"	"4.422"
##	"2.639"	"22"	"14.08"	"3.001"
##	"2.637"	"44"	"29.52"	"5.491"
##	"2.637"	"44"	"29.52"	"5.491"
##	"2.633"	"11"	"5.56"	"2.066"
##	"2.63"	"231"	"197.42"	"12.766"
##	"2.628"	"11"	"5.57"	"2.066"

##	"2.628"	"11"	"5.03"	"2.272"
##	"2.628"	"118"	"91.69"	"10.013"
##	"2.626"	"6"	"2.22"	"1.44"
##	"2.619"	"46"	"32.23"	"5.257"
##	"2.619"	"84"	"64.84"	"7.315"
##	"2.618"	"6"	"2.24"	"1.436"
##	"2.612"	"35"	"24.15"	"4.155"
##	"2.612"	"31"	"21.46"	"3.653"
##	"2.608"	"68"	"50.64"	"6.655"
##	"2.607"	"332"	"289.82"	"16.179"
##	"2.6"	"8"	"3"	"1.923"
##	"2.598"	"50"	"35.15"	"5.716"
##	"2.594"	"7"	"2.97"	"1.553"
##	"2.59"	"3"	"0.41"	"0.621"
##	"2.589"	"48"	"35.46"	"4.844"
##	"2.589"	"33"	"21.36"	"4.496"
##	"2.576"	"6"	"2.12"	"1.506"
##	"2.574"	"17"	"8.85"	"3.167"
##	"2.572"	"34"	"21.82"	"4.736"
##	"2.572"	"44"	"29.59"	"5.603"
##	"2.571"	"6"	"2.45"	"1.381"
##	"2.571"	"6"	"2.45"	"1.381"
##	"2.57"	"3"	"0.43"	"0.607"
##	"2.566"	"25"	"15.89"	"3.55"
##	"2.566"	"102"	"78.46"	"9.172"
##	"2.561"	"41"	"28.15"	"5.018"
##	"2.554"	"10"	"4.31"	"2.228"
##	"2.552"	"4"	"1.35"	"1.038"
##	"2.55"	"11"	"5.43"	"2.185"
##	"2.549"	"9"	"3.98"	"1.969"
##	"2.547"	"8"	"3.65"	"1.708"
##	"2.547"	"8"	"3.65"	"1.708"
##	"2.545"	"53"	"36.19"	"6.605"
##	"2.544"	"7"	"3.05"	"1.553"
##	"2.544"	"49"	"33.44"	"6.116"
##	"2.543"	"77"	"58.85"	"7.137"
##	"2.539"	"110"	"88.23"	"8.574"
##	"2.53"	"36"	"24.58"	"4.513"
##	"2.527"	"29"	"20.48"	"3.371"
##	"2.527"	"6"	"2"	"1.583"
##	"2.522"	"65"	"47.36"	"6.996"
##	"2.521"	"6"	"2.43"	"1.416"
##	"2.516"	"211"	"178.7"	"12.838"
##	"2.515"	"11"	"5.21"	"2.302"
##	"2.514"	"78"	"60.29"	"7.044"
##	"2.514"	"15"	"7.7"	"2.904"
##	"2.506"	"132"	"105.57"	"10.546"
##	"2.506"	"57"	"40.84"	"6.447"
##	"2.504"	"5"	"1.75"	"1.298"
##	"2.499"	"21"	"12.67"	"3.333"
##	"2.495"	"8"	"3.71"	"1.719"
##	"2.485"	"9"	"4.35"	"1.872"
##	"2.481"	"29"	"19.64"	"3.773"
##	"2.471"	"8"	"3.8"	"1.7"

##	"2.467"	"12"	"6.39"	"2.274"
##	"2.467"	"12"	"6.39"	"2.274"
##	"2.467"	"7"	"3.01"	"1.617"
##	"2.454"	"56"	"41.1"	"6.073"
##	"2.453"	"12"	"5.51"	"2.646"
##	"2.452"	"14"	"7.09"	"2.818"
##	"2.451"	"17"	"10.47"	"2.665"
##	"2.447"	"129"	"106.22"	"9.308"
##	"2.446"	"12"	"5.43"	"2.686"
##	"2.445"	"16"	"8.79"	"2.948"
##	"2.436"	"7"	"2.83"	"1.712"
##	"2.433"	"212"	"178.54"	"13.751"
##	"2.431"	"37"	"25.32"	"4.805"
##	"2.431"	"55"	"39.8"	"6.252"
##	"2.43"	"9"	"3.83"	"2.128"
##	"2.43"	"27"	"16.6"	"4.281"
##	"2.429"	"39"	"26.55"	"5.125"
##	"2.428"	"227"	"196.26"	"12.661"
##	"2.425"	"6"	"2.51"	"1.439"
##	"2.421"	"7"	"2.8"	"1.735"
##	"2.417"	"12"	"6.53"	"2.263"
##	"2.414"	"5"	"1.8"	"1.326"
##	"2.414"	"16"	"8.71"	"3.019"
##	"2.413"	"13"	"7.02"	"2.478"
##	"2.409"	"36"	"23.97"	"4.994"
##	"2.407"	"5"	"1.82"	"1.321"
##	"2.4"	"3"	"0.6"	"0.752"
##	"2.4"	"3"	"0.6"	"0.752"
##	"2.398"	"77"	"59.78"	"7.182"
##	"2.397"	"108"	"86.4"	"9.013"
##	"2.395"	"8"	"3.92"	"1.704"
##	"2.393"	"8"	"3.47"	"1.893"
##	"2.391"	"36"	"25.72"	"4.3"
##	"2.39"	"3"	"0.61"	"0.803"
##	"2.39"	"3"	"0.61"	"0.815"
##	"2.39"	"3"	"0.61"	"0.764"
##	"2.385"	"51"	"38.09"	"5.412"
##	"2.382"	"12"	"6.06"	"2.494"
##	"2.382"	"12"	"6.06"	"2.494"
##	"2.382"	"12"	"6.06"	"2.494"
##	"2.38"	"55"	"41.46"	"5.69"
##	"2.379"	"108"	"87.87"	"8.46"
##	"2.376"	"84"	"66.87"	"7.211"
##	"2.368"	"21"	"12.62"	"3.538"
##	"2.366"	"10"	"4.74"	"2.223"
##	"2.357"	"90"	"71.82"	"7.712"
##	"2.354"	"57"	"42.62"	"6.11"
##	"2.353"	"14"	"6.9"	"3.017"
##	"2.351"	"47"	"33.44"	"5.767"
##	"2.347"	"103"	"82.98"	"8.529"
##	"2.345"	"8"	"3.51"	"1.915"
##	"2.344"	"114"	"93.2"	"8.874"
##	"2.341"	"28"	"17.97"	"4.284"
##	"2.336"	"19"	"11.04"	"3.408"

##	"2.333"	"21"	"12.9"	"3.471"
##	"2.328"	"37"	"25.79"	"4.814"
##	"2.327"	"228"	"194.69"	"14.315"
##	"2.321"	"40"	"27.04"	"5.583"
##	"2.32"	"3"	"0.68"	"0.863"
##	"2.32"	"3"	"0.68"	"0.863"
##	"2.318"	"39"	"27.42"	"4.995"
##	"2.313"	"37"	"25.12"	"5.135"
##	"2.311"	"1358"	"1260.46"	"42.209"
##	"2.311"	"18"	"10.73"	"3.146"
##	"2.309"	"11"	"5.21"	"2.508"
##	"2.308"	"23"	"13.81"	"3.982"
##	"2.307"	"10"	"4.56"	"2.358"
##	"2.307"	"67"	"50.5"	"7.151"
##	"2.305"	"179"	"148.43"	"13.263"
##	"2.303"	"10"	"4.58"	"2.354"
##	"2.297"	"31"	"21.32"	"4.214"
##	"2.292"	"60"	"46.04"	"6.09"
##	"2.285"	"7"	"3.18"	"1.672"
##	"2.281"	"29"	"19.91"	"3.985"
##	"2.28"	"12"	"6.03"	"2.619"
##	"2.28"	"8"	"3.89"	"1.803"
##	"2.271"	"64"	"47.66"	"7.195"
##	"2.27"	"36"	"24.95"	"4.869"
##	"2.269"	"44"	"31.51"	"5.506"
##	"2.267"	"17"	"9.46"	"3.326"
##	"2.265"	"49"	"36.52"	"5.509"
##	"2.263"	"13"	"6.83"	"2.727"
##	"2.26"	"166"	"139.18"	"11.865"
##	"2.26"	"27"	"18"	"3.982"
##	"2.254"	"117"	"97.71"	"8.557"
##	"2.246"	"28"	"17.89"	"4.501"
##	"2.245"	"87"	"68.3"	"8.33"
##	"2.238"	"6"	"2.57"	"1.533"
##	"2.237"	"37"	"26.78"	"4.57"
##	"2.236"	"28"	"18.68"	"4.168"
##	"2.236"	"28"	"18.68"	"4.168"
##	"2.233"	"7"	"3.36"	"1.63"
##	"2.23"	"3"	"0.77"	"0.851"
##	"2.23"	"3"	"0.77"	"0.827"
##	"2.229"	"4"	"1.56"	"1.095"
##	"2.223"	"144"	"123.77"	"9.1"
##	"2.222"	"6"	"2.45"	"1.598"
##	"2.221"	"6"	"2.6"	"1.531"
##	"2.221"	"26"	"16.85"	"4.12"
##	"2.219"	"43"	"30.6"	"5.589"
##	"2.206"	"8"	"3.79"	"1.908"
##	"2.204"	"5"	"1.81"	"1.447"
##	"2.196"	"40"	"28.36"	"5.3"
##	"2.193"	"34"	"23.78"	"4.659"
##	"2.191"	"210"	"183.21"	"12.229"
##	"2.19"	"7"	"3.34"	"1.671"
##	"2.189"	"41"	"29.17"	"5.405"
##	"2.187"	"30"	"21.24"	"4.005"

##	"2.185"	"29"	"19.93"	"4.152"
##	"2.185"	"17"	"9.77"	"3.309"
##	"2.183"	"14"	"8.19"	"2.662"
##	"2.181"	"45"	"33"	"5.501"
##	"2.178"	"49"	"36.44"	"5.767"
##	"2.173"	"50"	"36.97"	"5.997"
##	"2.173"	"4"	"1.54"	"1.132"
##	"2.173"	"4"	"1.54"	"1.132"
##	"2.171"	"17"	"10.41"	"3.035"
##	"2.171"	"11"	"5.29"	"2.63"
##	"2.171"	"63"	"48.69"	"6.59"
##	"2.169"	"36"	"25.67"	"4.763"
##	"2.169"	"65"	"49.67"	"7.067"
##	"2.168"	"28"	"18.7"	"4.289"
##	"2.164"	"136"	"115.18"	"9.622"
##	"2.164"	"21"	"13.52"	"3.457"
##	"2.16"	"86"	"67.78"	"8.437"
##	"2.156"	"5"	"1.99"	"1.396"
##	"2.15"	"3"	"0.85"	"0.892"
##	"2.149"	"12"	"6.44"	"2.587"
##	"2.148"	"12"	"6.45"	"2.583"
##	"2.147"	"11"	"5.6"	"2.515"
##	"2.147"	"11"	"5.6"	"2.515"
##	"2.144"	"33"	"22.52"	"4.888"
##	"2.143"	"52"	"39.28"	"5.936"
##	"2.14"	"3"	"0.86"	"0.899"
##	"2.139"	"18"	"11.39"	"3.091"
##	"2.139"	"18"	"11.39"	"3.091"
##	"2.136"	"20"	"12.94"	"3.305"
##	"2.136"	"20"	"12.94"	"3.305"
##	"2.136"	"20"	"12.94"	"3.305"
##	"2.133"	"5"	"2.13"	"1.346"
##	"2.132"	"37"	"27.18"	"4.606"
##	"2.131"	"23"	"15.62"	"3.463"
##	"2.12"	"3"	"0.88"	"0.977"
##	"2.117"	"11"	"5.87"	"2.423"
##	"2.116"	"12"	"6.2"	"2.741"
##	"2.11"	"29"	"19.74"	"4.389"
##	"2.107"	"39"	"27.93"	"5.254"
##	"2.107"	"39"	"27.93"	"5.254"
##	"2.107"	"39"	"27.93"	"5.254"
##	"2.105"	"12"	"6.15"	"2.779"
##	"2.103"	"12"	"6.21"	"2.753"
##	"2.103"	"5"	"2.05"	"1.403"
##	"2.102"	"10"	"5.41"	"2.184"
##	"2.1"	"34"	"24.15"	"4.691"
##	"2.1"	"23"	"15.16"	"3.733"
##	"2.098"	"8"	"3.89"	"1.959"
##	"2.098"	"20"	"13.14"	"3.269"
##	"2.097"	"8"	"3.75"	"2.027"
##	"2.087"	"103"	"84.82"	"8.711"
##	"2.086"	"5"	"2.16"	"1.361"
##	"2.086"	"14"	"8.3"	"2.732"
##	"2.082"	"54"	"41.76"	"5.879"

##	"2.08"	"3"	"0.92"	"0.961"
##	"2.08"	"3"	"0.92"	"0.961"
##	"2.08"	"3"	"0.92"	"0.961"
##	"2.075"	"34"	"23.22"	"5.194"
##	"2.072"	"20"	"13.24"	"3.263"
##	"2.07"	"3"	"0.93"	"0.998"
##	"2.07"	"3"	"0.93"	"0.844"
##	"2.069"	"67"	"53.78"	"6.389"
##	"2.068"	"10"	"5.67"	"2.094"
##	"2.066"	"10"	"4.9"	"2.468"
##	"2.066"	"25"	"16.17"	"4.274"
##	"2.065"	"27"	"18.94"	"3.902"
##	"2.059"	"5"	"1.96"	"1.477"
##	"2.056"	"5"	"2.31"	"1.308"
##	"2.056"	"41"	"29.62"	"5.536"
##	"2.052"	"29"	"20.26"	"4.258"
##	"2.047"	"12"	"6.64"	"2.619"
##	"2.046"	"12"	"6.59"	"2.644"
##	"2.035"	"6"	"2.91"	"1.518"
##	"2.035"	"13"	"7.76"	"2.575"
##	"2.034"	"6"	"2.81"	"1.568"
##	"2.033"	"9"	"4.79"	"2.071"
##	"2.033"	"7"	"3.49"	"1.726"
##	"2.03"	"60"	"47.47"	"6.173"
##	"2.029"	"52"	"40.1"	"5.866"
##	"2.028"	"7"	"3.19"	"1.879"
##	"2.028"	"10"	"5.56"	"2.19"
##	"2.026"	"46"	"34.78"	"5.539"
##	"2.024"	"5"	"2.04"	"1.463"
##	"2.018"	"63"	"48.55"	"7.161"
##	"2.016"	"7"	"3.33"	"1.821"
##	"2.016"	"30"	"21.28"	"4.325"
##	"2.016"	"7"	"3.33"	"1.821"
##	"2.016"	"14"	"7.56"	"3.195"
##	"2.016"	"7"	"3.33"	"1.821"
##	"2.016"	"7"	"3.33"	"1.821"
##	"2.015"	"15"	"9.2"	"2.878"
##	"2.015"	"19"	"12.21"	"3.37"
##	"2.012"	"28"	"19.6"	"4.175"
##	"2.01"	"34"	"24.32"	"4.816"
##	"2.007"	"59"	"45.44"	"6.757"
##	"2.004"	"32"	"22.69"	"4.646"
##	"2.003"	"13"	"7.4"	"2.796"
##	"2.003"	"10"	"5.63"	"2.182"
##	"2.001"	"26"	"17.9"	"4.049"
##	"2.001"	"73"	"59.21"	"6.892"
##	"1.998"	"41"	"29.72"	"5.644"
##	"1.993"	"8"	"4.16"	"1.927"
##	"1.993"	"4"	"1.54"	"1.234"
##	"1.993"	"4"	"1.54"	"1.234"
##	"1.993"	"4"	"1.54"	"1.234"
##	"1.988"	"9"	"4.51"	"2.259"
##	"1.985"	"14"	"8.12"	"2.962"
##	"1.983"	"12"	"6.65"	"2.698"

##	"1.977"	"8"	"4.29"	"1.876"
##	"1.973"	"66"	"53.41"	"6.38"
##	"1.973"	"52"	"40.31"	"5.925"
##	"1.971"	"1127"	"1064.13"	"31.904"
##	"1.968"	"52"	"40.52"	"5.834"
##	"1.966"	"39"	"28.49"	"5.346"
##	"1.965"	"40"	"30.87"	"4.646"
##	"1.958"	"22"	"15.31"	"3.416"
##	"1.956"	"6"	"2.83"	"1.621"
##	"1.956"	"6"	"2.83"	"1.621"
##	"1.955"	"443"	"404.12"	"19.89"
##	"1.955"	"231"	"206.29"	"12.641"
##	"1.951"	"10"	"5.08"	"2.521"
##	"1.95"	"12"	"6.7"	"2.717"
##	"1.945"	"31"	"21.99"	"4.633"
##	"1.944"	"39"	"29.36"	"4.959"
##	"1.943"	"15"	"9.42"	"2.872"
##	"1.94"	"2"	"0.06"	"0.239"
##	"1.939"	"128"	"108.14"	"10.245"
##	"1.938"	"11"	"6.62"	"2.26"
##	"1.937"	"9"	"5.08"	"2.023"
##	"1.937"	"12"	"7.22"	"2.468"
##	"1.932"	"19"	"12.86"	"3.178"
##	"1.93"	"2"	"0.07"	"0.256"
##	"1.92"	"3"	"1.08"	"0.981"
##	"1.92"	"3"	"1.08"	"0.981"
##	"1.92"	"3"	"1.08"	"0.895"
##	"1.914"	"25"	"17.82"	"3.751"
##	"1.912"	"6"	"3.07"	"1.533"
##	"1.912"	"118"	"99.6"	"9.621"
##	"1.912"	"6"	"3.07"	"1.533"
##	"1.912"	"6"	"3.07"	"1.533"
##	"1.91"	"2"	"0.09"	"0.288"
##	"1.906"	"23"	"16.05"	"3.647"
##	"1.902"	"39"	"29.82"	"4.827"
##	"1.899"	"23"	"16.06"	"3.654"
##	"1.897"	"8"	"4.46"	"1.866"
##	"1.895"	"10"	"5.79"	"2.222"
##	"1.895"	"7"	"3.57"	"1.81"
##	"1.892"	"4"	"1.63"	"1.253"
##	"1.892"	"27"	"19.68"	"3.869"
##	"1.886"	"39"	"29.23"	"5.181"
##	"1.884"	"6"	"3.05"	"1.566"
##	"1.88"	"8"	"4.36"	"1.936"
##	"1.879"	"3"	"1.08"	"1.022"
##	"1.879"	"3"	"1.08"	"1.022"
##	"1.879"	"20"	"13.14"	"3.652"
##	"1.879"	"18"	"11.78"	"3.311"
##	"1.877"	"194"	"171.02"	"12.243"
##	"1.877"	"39"	"29.01"	"5.323"
##	"1.875"	"11"	"6.66"	"2.315"
##	"1.874"	"12"	"7.06"	"2.635"
##	"1.873"	"62"	"48.2"	"7.369"
##	"1.871"	"66"	"52.55"	"7.189"

##	"1.868"	"20"	"12.73"	"3.892"
##	"1.866"	"146"	"125.5"	"10.988"
##	"1.86"	"2"	"0.14"	"0.377"
##	"1.859"	"9"	"5.25"	"2.017"
##	"1.858"	"11"	"6.19"	"2.589"
##	"1.858"	"5"	"2.26"	"1.474"
##	"1.855"	"31"	"21.83"	"4.942"
##	"1.854"	"30"	"21.56"	"4.551"
##	"1.853"	"60"	"48.27"	"6.329"
##	"1.852"	"27"	"19.07"	"4.281"
##	"1.85"	"2"	"0.15"	"0.359"
##	"1.85"	"3"	"1.15"	"0.978"
##	"1.849"	"60"	"47.58"	"6.718"
##	"1.848"	"8"	"4.5"	"1.894"
##	"1.847"	"11"	"6.59"	"2.387"
##	"1.846"	"9"	"5.11"	"2.108"
##	"1.846"	"164"	"143.77"	"10.957"
##	"1.835"	"11"	"6.58"	"2.409"
##	"1.834"	"53"	"40.7"	"6.707"
##	"1.83"	"54"	"42.05"	"6.529"
##	"1.828"	"12"	"6.75"	"2.872"
##	"1.826"	"45"	"34.11"	"5.963"
##	"1.825"	"8"	"4.38"	"1.984"
##	"1.823"	"17"	"11.26"	"3.148"
##	"1.816"	"60"	"47.75"	"6.744"
##	"1.814"	"49"	"38.2"	"5.953"
##	"1.812"	"13"	"8.03"	"2.743"
##	"1.807"	"5"	"2.33"	"1.477"
##	"1.804"	"13"	"7.9"	"2.827"
##	"1.8"	"3"	"1.16"	"1.022"
##	"1.8"	"7"	"3.64"	"1.867"
##	"1.799"	"8"	"4.78"	"1.79"
##	"1.795"	"24"	"17.45"	"3.65"
##	"1.792"	"32"	"24.07"	"4.425"
##	"1.79"	"11"	"6.64"	"2.435"
##	"1.782"	"68"	"54.47"	"7.591"
##	"1.78"	"223"	"200.87"	"12.435"
##	"1.778"	"33"	"24.52"	"4.77"
##	"1.775"	"75"	"63.43"	"6.518"
##	"1.774"	"11"	"6.66"	"2.446"
##	"1.773"	"11"	"6.77"	"2.386"
##	"1.772"	"72"	"60.26"	"6.624"
##	"1.767"	"13"	"8.24"	"2.694"
##	"1.766"	"76"	"62.36"	"7.726"
##	"1.763"	"3"	"1.12"	"1.066"
##	"1.76"	"24"	"16.91"	"4.028"
##	"1.759"	"75"	"61.4"	"7.732"
##	"1.75"	"2"	"0.25"	"0.479"
##	"1.749"	"36"	"26.37"	"5.506"
##	"1.748"	"5"	"2.45"	"1.459"
##	"1.747"	"17"	"11.25"	"3.292"
##	"1.746"	"26"	"18.31"	"4.403"
##	"1.74"	"34"	"25.85"	"4.683"
##	"1.736"	"857"	"808.64"	"27.858"

##	"1.734"	"14"	"8.52"	"3.161"
##	"1.731"	"41"	"30.75"	"5.923"
##	"1.73"	"2"	"0.27"	"0.529"
##	"1.73"	"2"	"0.27"	"0.529"
##	"1.73"	"2"	"0.27"	"0.529"
##	"1.73"	"2"	"0.27"	"0.529"
##	"1.73"	"2"	"0.27"	"0.529"
##	"1.73"	"2"	"0.27"	"0.529"
##	"1.73"	"2"	"0.27"	"0.529"
##	"1.73"	"2"	"0.27"	"0.529"
##	"1.73"	"2"	"0.27"	"0.529"
##	"1.73"	"2"	"0.27"	"0.529"
##	"1.728"	"252"	"226"	"15.049"
##	"1.725"	"8"	"4.78"	"1.867"
##	"1.725"	"8"	"4.78"	"1.867"
##	"1.725"	"8"	"4.78"	"1.867"
##	"1.725"	"8"	"4.78"	"1.867"
##	"1.724"	"9"	"5.31"	"2.14"
##	"1.724"	"57"	"45.91"	"6.432"
##	"1.722"	"15"	"9.92"	"2.95"
##	"1.72"	"2"	"0.28"	"0.514"
##	"1.72"	"2"	"0.28"	"0.514"
##	"1.72"	"2"	"0.28"	"0.514"
##	"1.718"	"14"	"9.02"	"2.899"
##	"1.716"	"89"	"74.59"	"8.399"
##	"1.713"	"7"	"3.85"	"1.839"
##	"1.71"	"2"	"0.29"	"0.591"
##	"1.706"	"14"	"8.82"	"3.036"
##	"1.701"	"4"	"1.87"	"1.253"
##	"1.701"	"4"	"1.87"	"1.253"
##	"1.701"	"4"	"1.87"	"1.253"
##	"1.699"	"4"	"1.8"	"1.295"
##	"1.697"	"19"	"13.74"	"3.1"
##	"1.697"	"46"	"35.25"	"6.335"
##	"1.694"	"12"	"7.08"	"2.905"
##	"1.694"	"57"	"45.22"	"6.955"
##	"1.69"	"19"	"13.01"	"3.543"
##	"1.69"	"2"	"0.31"	"0.581"
##	"1.689"	"37"	"28.21"	"5.205"
##	"1.687"	"7"	"4.05"	"1.749"
##	"1.686"	"12"	"7.17"	"2.864"
##	"1.682"	"11"	"6.62"	"2.605"
##	"1.679"	"42"	"33.26"	"5.204"
##	"1.676"	"14"	"9.49"	"2.691"
##	"1.67"	"5"	"2.41"	"1.551"
##	"1.662"	"6"	"3.06"	"1.769"
##	"1.661"	"97"	"83.15"	"8.339"
##	"1.66"	"14"	"9.29"	"2.837"
##	"1.66"	"2"	"0.34"	"0.536"
##	"1.66"	"2"	"0.34"	"0.623"
##	"1.658"	"20"	"13.66"	"3.825"
##	"1.656"	"4"	"1.75"	"1.359"
##	"1.655"	"8"	"4.89"	"1.88"

##	"1.65"	"2"	"0.35"	"0.609"
##	"1.647"	"32"	"23.96"	"4.88"
##	"1.646"	"31"	"23.73"	"4.417"
##	"1.646"	"3"	"1.28"	"1.045"
##	"1.645"	"31"	"23.12"	"4.789"
##	"1.645"	"37"	"28.75"	"5.014"
##	"1.641"	"22"	"15.43"	"4.003"
##	"1.641"	"555"	"513.85"	"25.078"
##	"1.64"	"137"	"120.71"	"9.931"
##	"1.64"	"2"	"0.36"	"0.644"
##	"1.637"	"27"	"19.61"	"4.515"
##	"1.637"	"67"	"55.48"	"7.037"
##	"1.636"	"27"	"20.16"	"4.182"
##	"1.63"	"2"	"0.37"	"0.58"
##	"1.63"	"2"	"0.37"	"0.58"
##	"1.625"	"20"	"13.99"	"3.7"
##	"1.624"	"236"	"210.87"	"15.473"
##	"1.621"	"17"	"11.84"	"3.184"
##	"1.621"	"3"	"1.2"	"1.11"
##	"1.621"	"3"	"1.2"	"1.11"
##	"1.62"	"30"	"22.66"	"4.531"
##	"1.618"	"15"	"9.94"	"3.126"
##	"1.614"	"11"	"7.06"	"2.44"
##	"1.612"	"6"	"2.99"	"1.867"
##	"1.61"	"2"	"0.39"	"0.618"
##	"1.609"	"44"	"34.32"	"6.015"
##	"1.608"	"6"	"3.13"	"1.785"
##	"1.608"	"39"	"30.71"	"5.155"
##	"1.607"	"13"	"8.13"	"3.031"
##	"1.606"	"236"	"211.6"	"15.191"
##	"1.6"	"8"	"4.46"	"2.213"
##	"1.6"	"2"	"0.4"	"0.711"
##	"1.6"	"7"	"4.03"	"1.856"
##	"1.598"	"59"	"49.06"	"6.22"
##	"1.597"	"180"	"159.5"	"12.833"
##	"1.596"	"122"	"105.03"	"10.63"
##	"1.596"	"5"	"2.72"	"1.429"
##	"1.596"	"3"	"1.21"	"1.122"
##	"1.589"	"11"	"6.83"	"2.625"
##	"1.586"	"30"	"22.87"	"4.496"
##	"1.584"	"8"	"4.65"	"2.115"
##	"1.581"	"471"	"438.23"	"20.732"
##	"1.568"	"15"	"10.01"	"3.183"
##	"1.566"	"12"	"7.66"	"2.771"
##	"1.556"	"70"	"59.31"	"6.869"
##	"1.556"	"10"	"6.25"	"2.409"
##	"1.554"	"45"	"36.04"	"5.765"
##	"1.552"	"54"	"44.55"	"6.089"
##	"1.552"	"13"	"8.46"	"2.925"
##	"1.552"	"5"	"2.54"	"1.585"
##	"1.552"	"167"	"149.56"	"11.24"
##	"1.552"	"13"	"8.46"	"2.925"
##	"1.551"	"18"	"12.58"	"3.494"
##	"1.55"	"10"	"5.97"	"2.599"

##	"1.55"	"10"	"5.97"	"2.599"
##	"1.546"	"59"	"49.06"	"6.429"
##	"1.546"	"21"	"15.02"	"3.869"
##	"1.546"	"11"	"7.18"	"2.472"
##	"1.546"	"12"	"7.61"	"2.839"
##	"1.537"	"28"	"21"	"4.555"
##	"1.532"	"45"	"35.87"	"5.961"
##	"1.531"	"152"	"135.8"	"10.584"
##	"1.53"	"2"	"0.47"	"0.731"
##	"1.53"	"2"	"0.47"	"0.731"
##	"1.53"	"2"	"0.47"	"0.758"
##	"1.53"	"2"	"0.47"	"0.688"
##	"1.527"	"80"	"68.31"	"7.656"
##	"1.526"	"3"	"1.31"	"1.107"
##	"1.523"	"15"	"9.98"	"3.297"
##	"1.519"	"64"	"53.4"	"6.978"
##	"1.516"	"6"	"3.43"	"1.695"
##	"1.515"	"44"	"34.69"	"6.144"
##	"1.513"	"19"	"13.81"	"3.431"
##	"1.51"	"2"	"0.49"	"0.659"
##	"1.504"	"3"	"1.33"	"1.111"
##	"1.504"	"92"	"79.3"	"8.442"
##	"1.503"	"68"	"56.68"	"7.53"
##	"1.5"	"4"	"1.93"	"1.38"
##	"1.496"	"20"	"14.14"	"3.916"
##	"1.494"	"326"	"303.29"	"15.2"
##	"1.493"	"47"	"38.47"	"5.713"
##	"1.492"	"73"	"61.49"	"7.713"
##	"1.491"	"18"	"13"	"3.354"
##	"1.49"	"115"	"100.51"	"9.726"
##	"1.489"	"21"	"15.9"	"3.425"
##	"1.487"	"12"	"7.59"	"2.965"
##	"1.481"	"6"	"3.61"	"1.614"
##	"1.48"	"80"	"66.13"	"9.373"
##	"1.477"	"7"	"4.04"	"2.005"
##	"1.476"	"3"	"1.48"	"1.03"
##	"1.474"	"23"	"16.87"	"4.158"
##	"1.473"	"5"	"2.51"	"1.691"
##	"1.467"	"44"	"36.04"	"5.425"
##	"1.466"	"68"	"57.71"	"7.017"
##	"1.458"	"61"	"50.79"	"7.001"
##	"1.454"	"27"	"20.42"	"4.524"
##	"1.452"	"7"	"4.1"	"1.997"
##	"1.451"	"6"	"3.32"	"1.847"
##	"1.437"	"5"	"2.6"	"1.67"
##	"1.435"	"3"	"1.32"	"1.171"
##	"1.435"	"16"	"11.54"	"3.109"
##	"1.434"	"23"	"16.89"	"4.261"
##	"1.433"	"7"	"4.25"	"1.919"
##	"1.427"	"20"	"14.49"	"3.863"
##	"1.424"	"18"	"12.96"	"3.539"
##	"1.423"	"67"	"57.27"	"6.837"
##	"1.422"	"6"	"3.7"	"1.617"
##	"1.422"	"42"	"33.5"	"5.976"

##	"1.421"	"13"	"8.89"	"2.892"
##	"1.416"	"12"	"7.94"	"2.867"
##	"1.413"	"14"	"9.54"	"3.157"
##	"1.401"	"16"	"10.63"	"3.834"
##	"1.401"	"8"	"4.42"	"2.555"
##	"1.4"	"2"	"0.6"	"0.711"
##	"1.397"	"75"	"65.11"	"7.078"
##	"1.395"	"18"	"13.32"	"3.354"
##	"1.393"	"11"	"7.54"	"2.484"
##	"1.392"	"37"	"29.83"	"5.152"
##	"1.392"	"52"	"43.06"	"6.424"
##	"1.391"	"25"	"18.67"	"4.551"
##	"1.39"	"2"	"0.61"	"0.751"
##	"1.39"	"2"	"0.61"	"0.815"
##	"1.389"	"14"	"9.74"	"3.067"
##	"1.388"	"32"	"25"	"5.043"
##	"1.388"	"8"	"4.83"	"2.283"
##	"1.383"	"27"	"21.45"	"4.014"
##	"1.383"	"34"	"26.97"	"5.082"
##	"1.38"	"2"	"0.62"	"0.776"
##	"1.379"	"26"	"20.68"	"3.858"
##	"1.377"	"41"	"32.95"	"5.845"
##	"1.372"	"4"	"2.17"	"1.334"
##	"1.372"	"4"	"2.17"	"1.334"
##	"1.37"	"12"	"8.45"	"2.591"
##	"1.369"	"14"	"9.66"	"3.169"
##	"1.365"	"12"	"8.03"	"2.908"
##	"1.362"	"338"	"308.86"	"21.395"
##	"1.36"	"2"	"0.64"	"0.785"
##	"1.357"	"387"	"362.47"	"18.076"
##	"1.356"	"38"	"30.59"	"5.466"
##	"1.354"	"12"	"8"	"2.954"
##	"1.353"	"55"	"46.3"	"6.43"
##	"1.35"	"2"	"0.65"	"0.821"
##	"1.349"	"14"	"9.44"	"3.379"
##	"1.345"	"66"	"54.95"	"8.215"
##	"1.345"	"100"	"88.3"	"8.7"
##	"1.345"	"6"	"3.44"	"1.903"
##	"1.342"	"62"	"53.05"	"6.667"
##	"1.341"	"5"	"2.77"	"1.663"
##	"1.34"	"2"	"0.66"	"0.781"
##	"1.34"	"2"	"0.66"	"0.742"
##	"1.34"	"2"	"0.66"	"0.807"
##	"1.34"	"2"	"0.66"	"0.742"
##	"1.337"	"17"	"12.58"	"3.306"
##	"1.33"	"2"	"0.67"	"0.792"
##	"1.33"	"38"	"30.87"	"5.361"
##	"1.326"	"74"	"64.32"	"7.299"
##	"1.324"	"35"	"28.12"	"5.198"
##	"1.32"	"4"	"2.1"	"1.439"
##	"1.32"	"10"	"6.82"	"2.409"
##	"1.319"	"7"	"4.53"	"1.872"
##	"1.318"	"3"	"1.39"	"1.222"
##	"1.317"	"37"	"30.12"	"5.225"

##	"1.317"	"24"	"18.33"	"4.304"
##	"1.315"	"24"	"18.09"	"4.495"
##	"1.311"	"79"	"68.35"	"8.126"
##	"1.311"	"62"	"52.26"	"7.43"
##	"1.31"	"2"	"0.69"	"0.787"
##	"1.31"	"2"	"0.69"	"0.929"
##	"1.306"	"20"	"14.97"	"3.852"
##	"1.305"	"17"	"12.58"	"3.388"
##	"1.304"	"10"	"6.82"	"2.439"
##	"1.302"	"86"	"74.78"	"8.621"
##	"1.301"	"44"	"36.76"	"5.565"
##	"1.3"	"9"	"5.9"	"2.385"
##	"1.296"	"33"	"26.59"	"4.944"
##	"1.294"	"8"	"5.11"	"2.233"
##	"1.29"	"23"	"17.27"	"4.442"
##	"1.29"	"2"	"0.71"	"0.832"
##	"1.288"	"6"	"3.67"	"1.809"
##	"1.287"	"4"	"2.17"	"1.422"
##	"1.286"	"10"	"6.6"	"2.644"
##	"1.286"	"11"	"7.72"	"2.551"
##	"1.286"	"7"	"4.47"	"1.967"
##	"1.281"	"66"	"57.31"	"6.785"
##	"1.28"	"2"	"0.72"	"0.911"
##	"1.279"	"81"	"69.9"	"8.678"
##	"1.279"	"11"	"7.57"	"2.683"
##	"1.277"	"9"	"6.2"	"2.193"
##	"1.274"	"11"	"7.75"	"2.552"
##	"1.274"	"11"	"7.64"	"2.638"
##	"1.274"	"3"	"1.42"	"1.241"
##	"1.272"	"26"	"20.6"	"4.245"
##	"1.27"	"2"	"0.73"	"0.839"
##	"1.27"	"27"	"21.41"	"4.402"
##	"1.264"	"80"	"71.04"	"7.088"
##	"1.259"	"55"	"46.61"	"6.667"
##	"1.254"	"3"	"1.56"	"1.149"
##	"1.254"	"3"	"1.56"	"1.149"
##	"1.254"	"3"	"1.56"	"1.149"
##	"1.251"	"97"	"86.86"	"8.103"
##	"1.249"	"18"	"13.46"	"3.636"
##	"1.245"	"7"	"4.16"	"2.282"
##	"1.245"	"6"	"3.72"	"1.832"
##	"1.245"	"7"	"4.16"	"2.282"
##	"1.244"	"31"	"24.82"	"4.967"
##	"1.243"	"75"	"65.86"	"7.354"
##	"1.242"	"10"	"6.67"	"2.682"
##	"1.241"	"24"	"18.63"	"4.327"
##	"1.24"	"2"	"0.76"	"0.955"
##	"1.24"	"2"	"0.76"	"0.878"
##	"1.24"	"16"	"11.88"	"3.322"
##	"1.24"	"2"	"0.76"	"0.866"
##	"1.24"	"2"	"0.76"	"0.866"
##	"1.235"	"74"	"64.45"	"7.735"
##	"1.23"	"2"	"0.77"	"0.863"
##	"1.228"	"3"	"1.58"	"1.156"

##	"1.224"	"37"	"30.37"	"5.415"
##	"1.224"	"4"	"2.27"	"1.413"
##	"1.224"	"4"	"2.27"	"1.413"
##	"1.224"	"124"	"110.65"	"10.907"
##	"1.221"	"10"	"7.13"	"2.351"
##	"1.22"	"2"	"0.78"	"0.871"
##	"1.218"	"40"	"33.15"	"5.625"
##	"1.218"	"8"	"5.42"	"2.119"
##	"1.216"	"20"	"15.34"	"3.833"
##	"1.214"	"8"	"5.07"	"2.413"
##	"1.211"	"26"	"20.21"	"4.781"
##	"1.21"	"2"	"0.79"	"0.891"
##	"1.207"	"28"	"22.27"	"4.746"
##	"1.206"	"22"	"17.47"	"3.756"
##	"1.204"	"10"	"6.87"	"2.6"
##	"1.204"	"23"	"17.68"	"4.417"
##	"1.203"	"8"	"5.45"	"2.12"
##	"1.201"	"43"	"35.32"	"6.393"
##	"1.199"	"8"	"5.43"	"2.143"
##	"1.197"	"6"	"3.88"	"1.771"
##	"1.197"	"21"	"16.29"	"3.935"
##	"1.195"	"165"	"152.18"	"10.727"
##	"1.194"	"5"	"3"	"1.676"
##	"1.194"	"19"	"14.24"	"3.988"
##	"1.193"	"23"	"18.71"	"3.597"
##	"1.19"	"2"	"0.81"	"0.861"
##	"1.188"	"11"	"7.74"	"2.744"
##	"1.188"	"154"	"141.12"	"10.843"
##	"1.186"	"9"	"5.77"	"2.722"
##	"1.186"	"12"	"8.64"	"2.834"
##	"1.185"	"291"	"272.68"	"15.463"
##	"1.184"	"16"	"12.19"	"3.218"
##	"1.184"	"16"	"12.19"	"3.218"
##	"1.184"	"16"	"12.19"	"3.218"
##	"1.184"	"16"	"12.19"	"3.218"
##	"1.184"	"41"	"34.68"	"5.337"
##	"1.182"	"19"	"14.83"	"3.528"
##	"1.18"	"12"	"8.76"	"2.746"
##	"1.179"	"34"	"26.83"	"6.082"
##	"1.17"	"2"	"0.83"	"0.877"
##	"1.17"	"3"	"1.61"	"1.188"
##	"1.169"	"17"	"12.93"	"3.482"
##	"1.168"	"22"	"17.05"	"4.236"
##	"1.167"	"8"	"5.17"	"2.425"
##	"1.167"	"12"	"8.51"	"2.99"
##	"1.166"	"10"	"7.3"	"2.316"
##	"1.164"	"136"	"123.45"	"10.786"
##	"1.163"	"6"	"3.89"	"1.814"
##	"1.162"	"53"	"45.83"	"6.173"
##	"1.158"	"27"	"21.95"	"4.361"
##	"1.157"	"21"	"16.6"	"3.803"
##	"1.157"	"4"	"2.39"	"1.392"
##	"1.156"	"130"	"116.61"	"11.582"
##	"1.155"	"16"	"12.07"	"3.403"

##	"1.154"	"29"	"23.54"	"4.73"
##	"1.148"	"40"	"33.08"	"6.026"
##	"1.143"	"13"	"9.7"	"2.887"
##	"1.143"	"24"	"19.1"	"4.289"
##	"1.14"	"2"	"0.86"	"0.995"
##	"1.139"	"113"	"102.84"	"8.924"
##	"1.136"	"31"	"25.76"	"4.615"
##	"1.135"	"107"	"96.43"	"9.314"
##	"1.133"	"10"	"6.98"	"2.667"
##	"1.131"	"24"	"18.78"	"4.614"
##	"1.131"	"13"	"9.47"	"3.122"
##	"1.129"	"32"	"25.84"	"5.455"
##	"1.128"	"101"	"90.4"	"9.399"
##	"1.124"	"35"	"29.2"	"5.162"
##	"1.122"	"6"	"3.69"	"2.058"
##	"1.122"	"6"	"3.81"	"1.952"
##	"1.118"	"29"	"23.65"	"4.787"
##	"1.115"	"5"	"3.05"	"1.749"
##	"1.109"	"3"	"1.66"	"1.208"
##	"1.108"	"20"	"15.78"	"3.807"
##	"1.1"	"2"	"0.9"	"0.859"
##	"1.1"	"2"	"0.9"	"0.859"
##	"1.094"	"46"	"39.48"	"5.959"
##	"1.094"	"18"	"13.98"	"3.676"
##	"1.093"	"93"	"83.07"	"9.082"
##	"1.091"	"5"	"2.97"	"1.861"
##	"1.089"	"16"	"12.02"	"3.654"
##	"1.087"	"3"	"1.65"	"1.242"
##	"1.087"	"3"	"1.65"	"1.242"
##	"1.087"	"30"	"24.69"	"4.886"
##	"1.087"	"7"	"4.53"	"2.272"
##	"1.087"	"3"	"1.65"	"1.242"
##	"1.087"	"8"	"5.66"	"2.152"
##	"1.086"	"13"	"9.64"	"3.093"
##	"1.085"	"4"	"2.47"	"1.41"
##	"1.085"	"82"	"72.41"	"8.84"
##	"1.085"	"4"	"2.47"	"1.41"
##	"1.085"	"4"	"2.47"	"1.41"
##	"1.085"	"4"	"2.47"	"1.41"
##	"1.081"	"10"	"6.71"	"3.043"
##	"1.076"	"41"	"34.6"	"5.949"
##	"1.076"	"9"	"6.14"	"2.659"
##	"1.074"	"4"	"2.47"	"1.425"
##	"1.068"	"21"	"16.78"	"3.951"
##	"1.066"	"30"	"24.54"	"5.124"
##	"1.066"	"7"	"4.63"	"2.223"
##	"1.065"	"64"	"55.84"	"7.663"
##	"1.062"	"113"	"103.34"	"9.098"
##	"1.062"	"67"	"58.79"	"7.728"
##	"1.061"	"35"	"29.67"	"5.023"
##	"1.056"	"116"	"106.28"	"9.204"
##	"1.054"	"15"	"11.28"	"3.528"
##	"1.05"	"2"	"0.95"	"0.833"
##	"1.05"	"2"	"0.95"	"0.892"

##	"1.05"	"2"	"0.95"	"0.833"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.049"	"7"	"4.77"	"2.127"
##	"1.049"	"321"	"302.52"	"17.623"
##	"1.049"	"20"	"16.34"	"3.488"
##	"1.047"	"55"	"47.8"	"6.878"
##	"1.045"	"8"	"5.49"	"2.402"
##	"1.041"	"29"	"24.08"	"4.724"
##	"1.037"	"2"	"0.92"	"1.041"
##	"1.035"	"15"	"11.41"	"3.47"
##	"1.034"	"13"	"9.85"	"3.046"
##	"1.03"	"2"	"0.97"	"0.958"
##	"1.029"	"11"	"8.3"	"2.623"
##	"1.027"	"15"	"11.53"	"3.38"
##	"1.027"	"15"	"11.53"	"3.38"
##	"1.023"	"7"	"4.58"	"2.366"
##	"1.022"	"54"	"47.71"	"6.152"
##	"1.017"	"20"	"15.8"	"4.129"
##	"1.016"	"67"	"59.21"	"7.666"
##	"1.015"	"9"	"6.34"	"2.622"
##	"1.011"	"5"	"3.25"	"1.731"
##	"1.008"	"50"	"43.75"	"6.203"
##	"1.007"	"21"	"17.34"	"3.635"
##	"1.005"	"41"	"35"	"5.968"
##	"1.005"	"23"	"18.95"	"4.031"
##	"1.003"	"64"	"57.19"	"6.792"
##	"1.003"	"7"	"4.84"	"2.154"
##	"1"	"13"	"9.91"	"3.092"
##	"1"	"1"	"0"	"0"
##	"1"	"1"	"0"	"0"
##	"1"	"3"	"1.74"	"1.26"
##	"1"	"1"	"0"	"0"
##	"1"	"1"	"0"	"0"
##	"1"	"1"	"0"	"0"
##	"0.997"	"39"	"32.97"	"6.046"
##	"0.991"	"8"	"5.77"	"2.251"
##	"0.99"	"1"	"0.01"	"0.1"
##	"0.99"	"2"	"1.01"	"0.959"
##	"0.99"	"1"	"0.01"	"0.1"
##	"0.982"	"9"	"6.5"	"2.545"
##	"0.982"	"76"	"68.01"	"8.14"
##	"0.981"	"13"	"10.22"	"2.834"
##	"0.98"	"1"	"0.02"	"0.141"
##	"0.98"	"1"	"0.02"	"0.141"
##	"0.98"	"75"	"67.73"	"7.419"
##	"0.979"	"6"	"4.17"	"1.87"
##	"0.977"	"2"	"0.98"	"1.044"
##	"0.975"	"11"	"8.22"	"2.852"
##	"0.974"	"28"	"24.09"	"4.013"
##	"0.973"	"13"	"10.19"	"2.887"
##	"0.973"	"13"	"10.19"	"2.887"
##	"0.97"	"2"	"1.03"	"0.958"

##	"0.97"	"1"	"0.03"	"0.223"
##	"0.97"	"2"	"1.03"	"0.958"
##	"0.962"	"38"	"32.66"	"5.549"
##	"0.96"	"1"	"0.04"	"0.197"
##	"0.96"	"2"	"1.04"	"0.898"
##	"0.956"	"2"	"0.97"	"1.077"
##	"0.953"	"4"	"2.43"	"1.647"
##	"0.952"	"6"	"3.95"	"2.153"
##	"0.951"	"5"	"3.4"	"1.682"
##	"0.95"	"1"	"0.05"	"0.219"
##	"0.95"	"1"	"0.05"	"0.219"
##	"0.95"	"1"	"0.05"	"0.219"
##	"0.95"	"1"	"0.05"	"0.219"
##	"0.945"	"4"	"2.46"	"1.629"
##	"0.945"	"25"	"21.18"	"4.044"
##	"0.942"	"23"	"19.45"	"3.767"
##	"0.942"	"99"	"89.69"	"9.886"
##	"0.94"	"1"	"0.06"	"0.239"
##	"0.94"	"2"	"1.06"	"0.952"
##	"0.94"	"1"	"0.06"	"0.239"
##	"0.938"	"15"	"12.16"	"3.028"
##	"0.935"	"5"	"3.39"	"1.723"
##	"0.932"	"65"	"58.41"	"7.073"
##	"0.931"	"4"	"2.64"	"1.46"
##	"0.93"	"1"	"0.07"	"0.256"
##	"0.93"	"1"	"0.07"	"0.256"
##	"0.93"	"1"	"0.07"	"0.293"
##	"0.929"	"45"	"39.3"	"6.132"
##	"0.928"	"3"	"1.78"	"1.315"
##	"0.928"	"3"	"1.78"	"1.315"
##	"0.928"	"3"	"1.78"	"1.315"
##	"0.926"	"15"	"12.04"	"3.197"
##	"0.925"	"3"	"1.75"	"1.351"
##	"0.924"	"2"	"1.05"	"1.029"
##	"0.923"	"8"	"5.88"	"2.297"
##	"0.921"	"3"	"1.8"	"1.303"
##	"0.92"	"1"	"0.08"	"0.273"
##	"0.92"	"1"	"0.08"	"0.273"
##	"0.92"	"1"	"0.08"	"0.273"
##	"0.92"	"88"	"80.33"	"8.336"
##	"0.92"	"1"	"0.08"	"0.273"
##	"0.919"	"2"	"1.06"	"1.023"
##	"0.919"	"2"	"1.06"	"1.023"
##	"0.917"	"6"	"4.19"	"1.973"
##	"0.917"	"13"	"10.24"	"3.009"
##	"0.916"	"3"	"1.8"	"1.31"
##	"0.911"	"12"	"9.37"	"2.887"
##	"0.911"	"47"	"41.17"	"6.396"
##	"0.91"	"1"	"0.09"	"0.288"
##	"0.91"	"1"	"0.09"	"0.288"
##	"0.91"	"1"	"0.09"	"0.288"
##	"0.91"	"1"	"0.09"	"0.288"
##	"0.91"	"1"	"0.09"	"0.288"
##	"0.91"	"1"	"0.09"	"0.288"

##	"0.91"	"1"	"0.09"	"0.288"
##	"0.91"	"1"	"0.09"	"0.288"
##	"0.91"	"1"	"0.09"	"0.288"
##	"0.91"	"1"	"0.09"	"0.288"
##	"0.908"	"4"	"2.65"	"1.486"
##	"0.904"	"49"	"43.28"	"6.325"
##	"0.904"	"21"	"17.63"	"3.727"
##	"0.904"	"21"	"17.63"	"3.727"
##	"0.902"	"67"	"60.42"	"7.295"
##	"0.9"	"1"	"0.1"	"0.333"
##	"0.9"	"23"	"19.16"	"4.268"
##	"0.899"	"1104"	"1072.1"	"35.478"
##	"0.897"	"3"	"1.74"	"1.404"
##	"0.893"	"28"	"24.21"	"4.246"
##	"0.893"	"22"	"17.9"	"4.591"
##	"0.892"	"19"	"15.74"	"3.656"
##	"0.891"	"10"	"7.85"	"2.414"
##	"0.89"	"1"	"0.11"	"0.314"
##	"0.89"	"1"	"0.11"	"0.345"
##	"0.89"	"1"	"0.11"	"0.373"
##	"0.89"	"2"	"1.11"	"0.952"
##	"0.89"	"1"	"0.11"	"0.314"
##	"0.889"	"8"	"6.07"	"2.171"
##	"0.885"	"24"	"20.18"	"4.317"
##	"0.884"	"165"	"154.82"	"11.52"
##	"0.882"	"21"	"18.03"	"3.368"
##	"0.881"	"49"	"42.88"	"6.946"
##	"0.88"	"1"	"0.12"	"0.327"
##	"0.88"	"1"	"0.12"	"0.327"
##	"0.88"	"1"	"0.12"	"0.356"
##	"0.88"	"1"	"0.12"	"0.327"
##	"0.88"	"7"	"4.85"	"2.443"
##	"0.879"	"6"	"4.21"	"2.037"
##	"0.874"	"30"	"26.21"	"4.338"
##	"0.873"	"55"	"49.47"	"6.335"
##	"0.873"	"21"	"17.71"	"3.769"
##	"0.872"	"4"	"2.57"	"1.641"
##	"0.87"	"77"	"69.73"	"8.352"
##	"0.87"	"7"	"5.12"	"2.162"
##	"0.87"	"1"	"0.13"	"0.338"
##	"0.864"	"215"	"202.42"	"14.562"
##	"0.864"	"70"	"63.73"	"7.253"
##	"0.863"	"73"	"66.05"	"8.055"
##	"0.861"	"2"	"1.11"	"1.034"
##	"0.86"	"1"	"0.14"	"0.377"
##	"0.859"	"3"	"1.87"	"1.315"
##	"0.858"	"8"	"5.92"	"2.423"
##	"0.855"	"15"	"12.01"	"3.497"
##	"0.853"	"58"	"51.8"	"7.267"
##	"0.852"	"29"	"25.4"	"4.224"
##	"0.852"	"2"	"1.13"	"1.022"
##	"0.851"	"18"	"14.88"	"3.666"
##	"0.85"	"1"	"0.15"	"0.359"
##	"0.85"	"1"	"0.15"	"0.359"

##	"0.849"	"59"	"52.14"	"8.082"
##	"0.846"	"16"	"12.86"	"3.712"
##	"0.843"	"69"	"63.2"	"6.883"
##	"0.842"	"80"	"73.81"	"7.355"
##	"0.841"	"7"	"5.13"	"2.223"
##	"0.841"	"58"	"52.03"	"7.096"
##	"0.84"	"36"	"31.55"	"5.298"
##	"0.84"	"17"	"14"	"3.573"
##	"0.84"	"1"	"0.16"	"0.443"
##	"0.84"	"1"	"0.16"	"0.395"
##	"0.838"	"9"	"6.95"	"2.447"
##	"0.838"	"15"	"12.05"	"3.52"
##	"0.836"	"13"	"10.31"	"3.218"
##	"0.836"	"57"	"52.06"	"5.912"
##	"0.836"	"21"	"18.01"	"3.577"
##	"0.832"	"25"	"21.18"	"4.589"
##	"0.83"	"1"	"0.17"	"0.428"
##	"0.829"	"22"	"18.92"	"3.716"
##	"0.823"	"8"	"6.08"	"2.334"
##	"0.823"	"8"	"6.08"	"2.334"
##	"0.821"	"30"	"26.22"	"4.607"
##	"0.82"	"1"	"0.18"	"0.458"
##	"0.82"	"1"	"0.18"	"0.411"
##	"0.818"	"12"	"9.55"	"2.996"
##	"0.817"	"143"	"134.91"	"9.903"
##	"0.816"	"22"	"18.66"	"4.093"
##	"0.816"	"17"	"14.01"	"3.664"
##	"0.816"	"151"	"141.95"	"11.091"
##	"0.81"	"1"	"0.19"	"0.443"
##	"0.81"	"45"	"40.01"	"6.16"
##	"0.81"	"5"	"3.76"	"1.532"
##	"0.81"	"21"	"17.68"	"4.097"
##	"0.807"	"35"	"30.55"	"5.515"
##	"0.806"	"14"	"11.06"	"3.648"
##	"0.806"	"14"	"11.06"	"3.648"
##	"0.805"	"3"	"1.94"	"1.317"
##	"0.805"	"3"	"1.94"	"1.317"
##	"0.805"	"3"	"1.94"	"1.317"
##	"0.802"	"12"	"9.39"	"3.256"
##	"0.802"	"28"	"24.56"	"4.291"
##	"0.801"	"19"	"15.94"	"3.819"
##	"0.8"	"2"	"1.2"	"0.888"
##	"0.8"	"1"	"0.2"	"0.426"
##	"0.791"	"33"	"28.62"	"5.537"
##	"0.79"	"40"	"35.23"	"6.04"
##	"0.79"	"1"	"0.21"	"0.456"
##	"0.79"	"1"	"0.21"	"0.433"
##	"0.788"	"13"	"10.44"	"3.248"
##	"0.785"	"78"	"71.53"	"8.242"
##	"0.782"	"5"	"3.68"	"1.687"
##	"0.78"	"1"	"0.22"	"0.484"
##	"0.78"	"69"	"63.13"	"7.527"
##	"0.78"	"1"	"0.22"	"0.504"
##	"0.78"	"1"	"0.22"	"0.484"

##	"0.78"	"1"	"0.22"	"0.484"
##	"0.778"	"2"	"1.16"	"1.08"
##	"0.778"	"99"	"92.22"	"8.716"
##	"0.777"	"42"	"37.57"	"5.7"
##	"0.775"	"150"	"140.72"	"11.972"
##	"0.775"	"33"	"28.82"	"5.391"
##	"0.775"	"28"	"24.23"	"4.866"
##	"0.771"	"3"	"1.93"	"1.387"
##	"0.77"	"1"	"0.23"	"0.468"
##	"0.769"	"10"	"7.95"	"2.664"
##	"0.767"	"20"	"16.39"	"4.705"
##	"0.764"	"5"	"3.4"	"2.094"
##	"0.762"	"34"	"29.73"	"5.606"
##	"0.761"	"15"	"12.34"	"3.497"
##	"0.76"	"1"	"0.24"	"0.515"
##	"0.757"	"3"	"1.98"	"1.348"
##	"0.757"	"3"	"2.02"	"1.295"
##	"0.755"	"2"	"1.13"	"1.152"
##	"0.755"	"2"	"1.13"	"1.152"
##	"0.755"	"2"	"1.13"	"1.152"
##	"0.753"	"337"	"320.09"	"22.46"
##	"0.75"	"6"	"4.38"	"2.159"
##	"0.75"	"2"	"1.19"	"1.08"
##	"0.749"	"31"	"27.28"	"4.967"
##	"0.748"	"4"	"2.83"	"1.564"
##	"0.748"	"23"	"19.83"	"4.238"
##	"0.747"	"7"	"5.34"	"2.221"
##	"0.747"	"3"	"1.88"	"1.499"
##	"0.742"	"37"	"32.74"	"5.743"
##	"0.74"	"1"	"0.26"	"0.579"
##	"0.74"	"1"	"0.26"	"0.463"
##	"0.74"	"1"	"0.26"	"0.505"
##	"0.74"	"2"	"1.26"	"0.991"
##	"0.74"	"14"	"11.48"	"3.407"
##	"0.739"	"10"	"7.92"	"2.813"
##	"0.734"	"2"	"1.21"	"1.076"
##	"0.733"	"12"	"9.93"	"2.822"
##	"0.731"	"27"	"23.48"	"4.813"
##	"0.73"	"2"	"1.22"	"1.069"
##	"0.73"	"1"	"0.27"	"0.529"
##	"0.73"	"1"	"0.27"	"0.584"
##	"0.73"	"1"	"0.27"	"0.529"
##	"0.73"	"1"	"0.27"	"0.51"
##	"0.729"	"23"	"19.8"	"4.392"
##	"0.729"	"23"	"19.89"	"4.266"
##	"0.724"	"14"	"11.16"	"3.92"
##	"0.723"	"3"	"2.02"	"1.356"
##	"0.723"	"3"	"2.02"	"1.356"
##	"0.721"	"3"	"1.96"	"1.442"
##	"0.72"	"44"	"39.45"	"6.319"
##	"0.72"	"4"	"2.9"	"1.528"
##	"0.719"	"4"	"2.8"	"1.67"
##	"0.715"	"15"	"12.32"	"3.747"
##	"0.714"	"9"	"7.34"	"2.323"

##	"0.713"	"2"	"1.15"	"1.192"
##	"0.71"	"1"	"0.29"	"0.556"
##	"0.706"	"23"	"19.88"	"4.418"
##	"0.705"	"4"	"2.76"	"1.759"
##	"0.704"	"2"	"1.26"	"1.05"
##	"0.702"	"36"	"32.11"	"5.538"
##	"0.702"	"5"	"3.66"	"1.908"
##	"0.701"	"12"	"9.75"	"3.211"
##	"0.7"	"41"	"36.79"	"6.012"
##	"0.7"	"1"	"0.3"	"0.595"
##	"0.7"	"3"	"2.02"	"1.4"
##	"0.7"	"12"	"9.86"	"3.055"
##	"0.7"	"1"	"0.3"	"0.56"
##	"0.699"	"9"	"7.21"	"2.56"
##	"0.697"	"5"	"3.74"	"1.807"
##	"0.696"	"31"	"27.23"	"5.418"
##	"0.694"	"13"	"10.73"	"3.272"
##	"0.694"	"75"	"69.53"	"7.88"
##	"0.692"	"186"	"177.21"	"12.695"
##	"0.69"	"293"	"281.69"	"16.397"
##	"0.69"	"2"	"1.31"	"0.907"
##	"0.69"	"1"	"0.31"	"0.581"
##	"0.685"	"12"	"9.85"	"3.138"
##	"0.684"	"2"	"1.29"	"1.038"
##	"0.683"	"20"	"17.28"	"3.982"
##	"0.683"	"56"	"51.52"	"6.557"
##	"0.681"	"2"	"1.27"	"1.072"
##	"0.68"	"1"	"0.32"	"0.53"
##	"0.679"	"56"	"51.04"	"7.307"
##	"0.678"	"2"	"1.29"	"1.047"
##	"0.677"	"20"	"17.58"	"3.577"
##	"0.676"	"29"	"25.46"	"5.237"
##	"0.676"	"4"	"2.8"	"1.775"
##	"0.676"	"6"	"4.58"	"2.099"
##	"0.676"	"61"	"56.46"	"6.72"
##	"0.676"	"6"	"4.58"	"2.099"
##	"0.674"	"5"	"3.52"	"2.195"
##	"0.673"	"10"	"7.94"	"3.061"
##	"0.669"	"14"	"11.68"	"3.467"
##	"0.669"	"9"	"7.32"	"2.51"
##	"0.667"	"30"	"26.8"	"4.801"
##	"0.665"	"185"	"175.38"	"14.457"
##	"0.664"	"28"	"24.78"	"4.846"
##	"0.663"	"2"	"1.26"	"1.116"
##	"0.662"	"3"	"2.08"	"1.39"
##	"0.66"	"14"	"12"	"3.032"
##	"0.66"	"3"	"2.11"	"1.348"
##	"0.659"	"8"	"6.3"	"2.58"
##	"0.658"	"2"	"1.27"	"1.109"
##	"0.658"	"61"	"55.88"	"7.78"
##	"0.656"	"15"	"12.61"	"3.646"
##	"0.655"	"4"	"2.95"	"1.604"
##	"0.655"	"4"	"2.93"	"1.635"
##	"0.655"	"4"	"2.95"	"1.604"

##	"0.654"	"4"	"2.87"	"1.727"
##	"0.653"	"2"	"1.22"	"1.194"
##	"0.652"	"3"	"2.08"	"1.412"
##	"0.65"	"4"	"2.93"	"1.647"
##	"0.65"	"1"	"0.35"	"0.592"
##	"0.649"	"16"	"13.48"	"3.883"
##	"0.646"	"9"	"7.29"	"2.649"
##	"0.642"	"5"	"3.86"	"1.775"
##	"0.64"	"1"	"0.36"	"0.612"
##	"0.64"	"1"	"0.36"	"0.612"
##	"0.64"	"1"	"0.36"	"0.659"
##	"0.64"	"1"	"0.36"	"0.56"
##	"0.64"	"1"	"0.36"	"0.659"
##	"0.64"	"1"	"0.36"	"0.542"
##	"0.64"	"1"	"0.36"	"0.659"
##	"0.637"	"18"	"15.67"	"3.657"
##	"0.636"	"30"	"26.84"	"4.968"
##	"0.629"	"13"	"10.93"	"3.288"
##	"0.629"	"11"	"8.95"	"3.261"
##	"0.628"	"76"	"70.78"	"8.308"
##	"0.625"	"2"	"1.34"	"1.056"
##	"0.621"	"20"	"17.5"	"4.026"
##	"0.62"	"60"	"55.75"	"6.853"
##	"0.62"	"1"	"0.38"	"0.616"
##	"0.62"	"1"	"0.38"	"0.678"
##	"0.62"	"1"	"0.38"	"0.565"
##	"0.62"	"1"	"0.38"	"0.616"
##	"0.62"	"1"	"0.38"	"0.678"
##	"0.62"	"1"	"0.38"	"0.632"
##	"0.62"	"1"	"0.38"	"0.616"
##	"0.62"	"15"	"12.83"	"3.499"
##	"0.62"	"1"	"0.38"	"0.565"
##	"0.617"	"19"	"16.81"	"3.55"
##	"0.616"	"127"	"120.42"	"10.682"
##	"0.616"	"3"	"2.15"	"1.381"
##	"0.614"	"12"	"9.94"	"3.354"
##	"0.611"	"27"	"23.97"	"4.959"
##	"0.61"	"1"	"0.39"	"0.618"
##	"0.61"	"1"	"0.39"	"0.567"
##	"0.61"	"1"	"0.39"	"0.567"
##	"0.61"	"1"	"0.39"	"0.618"
##	"0.61"	"1"	"0.39"	"0.53"
##	"0.609"	"5"	"3.84"	"1.905"
##	"0.608"	"11"	"9.23"	"2.912"
##	"0.607"	"282"	"268.39"	"22.415"
##	"0.6"	"1"	"0.4"	"0.636"
##	"0.597"	"13"	"11.08"	"3.215"
##	"0.594"	"65"	"60.33"	"7.861"
##	"0.591"	"19"	"16.7"	"3.894"
##	"0.59"	"1"	"0.41"	"0.637"
##	"0.59"	"1"	"0.41"	"0.637"
##	"0.588"	"14"	"12.02"	"3.366"
##	"0.586"	"20"	"17.6"	"4.097"
##	"0.584"	"2"	"1.34"	"1.13"

##	"0.583"	"5"	"3.91"	"1.87"
##	"0.58"	"1"	"0.42"	"0.638"
##	"0.58"	"1"	"0.42"	"0.622"
##	"0.58"	"1"	"0.42"	"0.638"
##	"0.58"	"1"	"0.42"	"0.638"
##	"0.58"	"1"	"0.42"	"0.638"
##	"0.58"	"1"	"0.42"	"0.638"
##	"0.58"	"1"	"0.42"	"0.606"
##	"0.579"	"14"	"12.05"	"3.371"
##	"0.577"	"276"	"263.13"	"22.314"
##	"0.577"	"3"	"2.15"	"1.473"
##	"0.577"	"3"	"2.15"	"1.473"
##	"0.577"	"3"	"2.15"	"1.473"
##	"0.577"	"3"	"2.15"	"1.473"
##	"0.575"	"3"	"2.16"	"1.461"
##	"0.574"	"57"	"52.99"	"6.987"
##	"0.572"	"4"	"3.13"	"1.522"
##	"0.572"	"19"	"17.01"	"3.477"
##	"0.568"	"42"	"38.54"	"6.093"
##	"0.567"	"2"	"1.33"	"1.181"
##	"0.56"	"1"	"0.44"	"0.756"
##	"0.555"	"3"	"2.13"	"1.568"
##	"0.555"	"3"	"2.2"	"1.443"
##	"0.555"	"3"	"2.2"	"1.443"
##	"0.552"	"2"	"1.33"	"1.215"
##	"0.552"	"29"	"26.48"	"4.563"
##	"0.551"	"38"	"34.97"	"5.495"
##	"0.55"	"2"	"1.45"	"0.968"
##	"0.55"	"16"	"13.91"	"3.801"
##	"0.55"	"1"	"0.45"	"0.609"
##	"0.55"	"98"	"93.22"	"8.691"
##	"0.547"	"14"	"12.05"	"3.566"
##	"0.547"	"49"	"45.29"	"6.787"
##	"0.547"	"14"	"12.05"	"3.566"
##	"0.544"	"12"	"10.33"	"3.072"
##	"0.543"	"26"	"23.4"	"4.784"
##	"0.542"	"12"	"10.27"	"3.194"
##	"0.54"	"1"	"0.46"	"0.626"
##	"0.54"	"1"	"0.46"	"0.642"
##	"0.54"	"1"	"0.46"	"0.642"
##	"0.539"	"136"	"129.79"	"11.53"
##	"0.537"	"21"	"18.89"	"3.931"
##	"0.535"	"30"	"27.31"	"5.033"
##	"0.534"	"44"	"40.78"	"6.026"
##	"0.531"	"5"	"3.92"	"2.033"
##	"0.531"	"2"	"1.37"	"1.186"
##	"0.53"	"1"	"0.47"	"0.674"
##	"0.53"	"1"	"0.47"	"0.745"
##	"0.53"	"1"	"0.47"	"0.745"
##	"0.53"	"1"	"0.47"	"0.745"
##	"0.53"	"1"	"0.47"	"0.674"
##	"0.53"	"1"	"0.47"	"0.674"
##	"0.528"	"36"	"33.49"	"4.754"
##	"0.527"	"3"	"2.21"	"1.499"

##	"0.524"	"46"	"42.79"	"6.122"
##	"0.524"	"6"	"4.9"	"2.101"
##	"0.523"	"35"	"32.02"	"5.694"
##	"0.522"	"7"	"5.75"	"2.393"
##	"0.52"	"1"	"0.48"	"0.689"
##	"0.52"	"96"	"91.59"	"8.473"
##	"0.52"	"1"	"0.48"	"0.703"
##	"0.517"	"57"	"53.41"	"6.947"
##	"0.516"	"68"	"64.15"	"7.468"
##	"0.513"	"6"	"4.8"	"2.34"
##	"0.513"	"6"	"4.8"	"2.34"
##	"0.51"	"11"	"9.48"	"2.98"
##	"0.51"	"1"	"0.49"	"0.659"
##	"0.51"	"1"	"0.49"	"0.595"
##	"0.51"	"1"	"0.49"	"0.689"
##	"0.51"	"1"	"0.49"	"0.659"
##	"0.51"	"1"	"0.49"	"0.595"
##	"0.51"	"30"	"27.29"	"5.309"
##	"0.51"	"1"	"0.49"	"0.689"
##	"0.51"	"1"	"0.49"	"0.628"
##	"0.51"	"1"	"0.49"	"0.628"
##	"0.508"	"10"	"8.63"	"2.699"
##	"0.508"	"2"	"1.4"	"1.181"
##	"0.508"	"11"	"9.59"	"2.775"
##	"0.506"	"36"	"33.05"	"5.826"
##	"0.506"	"2"	"1.45"	"1.086"
##	"0.506"	"30"	"27.61"	"4.722"
##	"0.505"	"62"	"58.37"	"7.194"
##	"0.505"	"60"	"56.44"	"7.046"
##	"0.505"	"2"	"1.42"	"1.148"
##	"0.503"	"54"	"50.37"	"7.218"
##	"0.5"	"1"	"0.5"	"0.611"
##	"0.5"	"1"	"0.5"	"0.718"
##	"0.5"	"1"	"0.5"	"0.718"
##	"0.5"	"1"	"0.5"	"0.718"
##	"0.5"	"1"	"0.5"	"0.718"
##	"0.498"	"2"	"1.38"	"1.245"
##	"0.498"	"38"	"35.34"	"5.339"
##	"0.493"	"25"	"22.65"	"4.77"
##	"0.491"	"25"	"22.32"	"5.453"
##	"0.491"	"40"	"37.22"	"5.658"
##	"0.491"	"25"	"22.8"	"4.477"
##	"0.49"	"9"	"7.66"	"2.735"
##	"0.49"	"1"	"0.51"	"0.745"
##	"0.49"	"9"	"7.66"	"2.735"
##	"0.49"	"1"	"0.51"	"0.835"
##	"0.488"	"4"	"3.15"	"1.743"
##	"0.487"	"5"	"3.97"	"2.115"
##	"0.487"	"5"	"3.97"	"2.115"
##	"0.486"	"29"	"26.59"	"4.963"
##	"0.484"	"28"	"25.45"	"5.273"
##	"0.481"	"14"	"12.25"	"3.641"
##	"0.481"	"9"	"7.68"	"2.745"
##	"0.48"	"95"	"90.49"	"9.388"

##	"0.48"	"1"	"0.52"	"0.759"
##	"0.48"	"1"	"0.52"	"0.759"
##	"0.48"	"1"	"0.52"	"0.759"
##	"0.48"	"125"	"119.92"	"10.574"
##	"0.48"	"1"	"0.52"	"0.785"
##	"0.48"	"1"	"0.52"	"0.759"
##	"0.479"	"33"	"30.29"	"5.656"
##	"0.476"	"129"	"123.42"	"11.72"
##	"0.476"	"6"	"5.07"	"1.955"
##	"0.473"	"5"	"4.1"	"1.904"
##	"0.473"	"29"	"26.71"	"4.842"
##	"0.472"	"6"	"4.96"	"2.202"
##	"0.472"	"24"	"21.82"	"4.615"
##	"0.471"	"23"	"20.9"	"4.457"
##	"0.47"	"46"	"42.9"	"6.597"
##	"0.47"	"246"	"238.61"	"15.709"
##	"0.47"	"37"	"34.29"	"5.767"
##	"0.47"	"1"	"0.53"	"0.771"
##	"0.47"	"1"	"0.53"	"0.745"
##	"0.468"	"30"	"27.47"	"5.408"
##	"0.468"	"4"	"3.11"	"1.901"
##	"0.468"	"4"	"3.11"	"1.901"
##	"0.467"	"102"	"97.58"	"9.469"
##	"0.467"	"3"	"2.23"	"1.651"
##	"0.466"	"11"	"9.57"	"3.069"
##	"0.466"	"4"	"3.22"	"1.673"
##	"0.466"	"46"	"43.09"	"6.251"
##	"0.466"	"91"	"86.96"	"8.661"
##	"0.466"	"4"	"3.22"	"1.673"
##	"0.465"	"19"	"17.15"	"3.981"
##	"0.463"	"3"	"2.2"	"1.729"
##	"0.463"	"3"	"2.2"	"1.729"
##	"0.462"	"4"	"3.28"	"1.558"
##	"0.46"	"1"	"0.54"	"0.702"
##	"0.46"	"1"	"0.54"	"0.809"
##	"0.46"	"1"	"0.54"	"0.702"
##	"0.46"	"1"	"0.54"	"0.702"
##	"0.46"	"1"	"0.54"	"0.702"
##	"0.46"	"1"	"0.54"	"0.702"
##	"0.46"	"1"	"0.54"	"0.702"
##	"0.46"	"1"	"0.54"	"0.702"
##	"0.46"	"1"	"0.54"	"0.702"
##	"0.46"	"1"	"0.54"	"0.702"
##	"0.46"	"1"	"0.54"	"0.702"
##	"0.46"	"1"	"0.54"	"0.702"
##	"0.458"	"4"	"3.21"	"1.725"
##	"0.457"	"11"	"9.76"	"2.716"
##	"0.456"	"11"	"9.51"	"3.271"
##	"0.453"	"34"	"31.67"	"5.141"
##	"0.453"	"178"	"172.18"	"12.856"
##	"0.451"	"2"	"1.47"	"1.176"
##	"0.451"	"308"	"299.19"	"19.514"
##	"0.45"	"1"	"0.55"	"0.73"
##	"0.45"	"1"	"0.55"	"0.702"
##	"0.45"	"1"	"0.55"	"0.702"

##	"0.45"	"1"	"0.55"	"0.702"
##	"0.45"	"1"	"0.55"	"0.702"
##	"0.45"	"1"	"0.55"	"0.702"
##	"0.449"	"66"	"62.45"	"7.913"
##	"0.446"	"8"	"6.85"	"2.576"
##	"0.445"	"52"	"49.01"	"6.717"
##	"0.442"	"2"	"1.48"	"1.176"
##	"0.441"	"20"	"18.16"	"4.172"
##	"0.441"	"11"	"9.72"	"2.899"
##	"0.44"	"1"	"0.56"	"0.756"
##	"0.44"	"1"	"0.56"	"0.701"
##	"0.436"	"11"	"9.73"	"2.912"
##	"0.435"	"7"	"5.88"	"2.575"
##	"0.435"	"8"	"6.89"	"2.55"
##	"0.435"	"9"	"7.92"	"2.485"
##	"0.435"	"2"	"1.54"	"1.058"
##	"0.434"	"34"	"31.48"	"5.801"
##	"0.433"	"16"	"14.23"	"4.092"
##	"0.433"	"15"	"13.36"	"3.783"
##	"0.432"	"4"	"3.24"	"1.759"
##	"0.43"	"1"	"0.57"	"0.685"
##	"0.427"	"3"	"2.33"	"1.57"
##	"0.426"	"21"	"19.15"	"4.345"
##	"0.426"	"8"	"6.9"	"2.584"
##	"0.426"	"5"	"4.13"	"2.043"
##	"0.425"	"38"	"35.36"	"6.209"
##	"0.425"	"2"	"1.53"	"1.105"
##	"0.421"	"5"	"4.21"	"1.876"
##	"0.42"	"1"	"0.58"	"0.727"
##	"0.419"	"6"	"5.17"	"1.98"
##	"0.416"	"39"	"36.53"	"5.943"
##	"0.416"	"47"	"44.36"	"6.343"
##	"0.415"	"25"	"22.93"	"4.985"
##	"0.412"	"82"	"79.05"	"7.165"
##	"0.41"	"32"	"29.88"	"5.166"
##	"0.41"	"1"	"0.59"	"0.805"
##	"0.41"	"2"	"1.48"	"1.267"
##	"0.41"	"1"	"0.59"	"0.698"
##	"0.409"	"3"	"2.39"	"1.49"
##	"0.407"	"4"	"3.25"	"1.844"
##	"0.406"	"17"	"15.57"	"3.52"
##	"0.404"	"4"	"3.24"	"1.881"
##	"0.404"	"30"	"27.89"	"5.216"
##	"0.403"	"8"	"6.96"	"2.578"
##	"0.4"	"1"	"0.6"	"0.725"
##	"0.4"	"1"	"0.6"	"0.725"
##	"0.399"	"5"	"4.19"	"2.029"
##	"0.398"	"9"	"7.95"	"2.638"
##	"0.396"	"13"	"11.67"	"3.361"
##	"0.395"	"12"	"10.7"	"3.295"
##	"0.395"	"8"	"6.96"	"2.636"
##	"0.392"	"14"	"12.69"	"3.341"
##	"0.39"	"1"	"0.61"	"0.665"
##	"0.39"	"1"	"0.61"	"0.665"

##	"0.388"	"6"	"5.19"	"2.087"
##	"0.384"	"8"	"7.02"	"2.55"
##	"0.382"	"18"	"16.39"	"4.214"
##	"0.38"	"1"	"0.62"	"0.789"
##	"0.38"	"1"	"0.62"	"0.789"
##	"0.38"	"1"	"0.62"	"0.736"
##	"0.38"	"4"	"3.34"	"1.736"
##	"0.38"	"44"	"41.66"	"6.15"
##	"0.38"	"50"	"47.8"	"5.791"
##	"0.38"	"1"	"0.62"	"0.814"
##	"0.377"	"66"	"63.51"	"6.607"
##	"0.377"	"3"	"2.38"	"1.644"
##	"0.376"	"2"	"1.53"	"1.251"
##	"0.374"	"25"	"23.22"	"4.762"
##	"0.37"	"1"	"0.63"	"0.72"
##	"0.37"	"1"	"0.63"	"0.761"
##	"0.37"	"13"	"11.8"	"3.244"
##	"0.37"	"1"	"0.63"	"0.761"
##	"0.37"	"1"	"0.63"	"0.72"
##	"0.37"	"57"	"54.41"	"7.002"
##	"0.37"	"1"	"0.63"	"0.787"
##	"0.37"	"1"	"0.63"	"0.72"
##	"0.367"	"3"	"2.43"	"1.552"
##	"0.364"	"12"	"10.79"	"3.322"
##	"0.364"	"29"	"27.28"	"4.731"
##	"0.363"	"35"	"32.96"	"5.619"
##	"0.361"	"9"	"7.98"	"2.825"
##	"0.36"	"7"	"6.05"	"2.638"
##	"0.359"	"31"	"29.13"	"5.202"
##	"0.358"	"2"	"1.59"	"1.147"
##	"0.355"	"55"	"52.58"	"6.824"
##	"0.352"	"30"	"28.17"	"5.199"
##	"0.352"	"129"	"125.18"	"10.837"
##	"0.351"	"2"	"1.5"	"1.425"
##	"0.35"	"1"	"0.65"	"0.716"
##	"0.35"	"1"	"0.65"	"0.716"
##	"0.35"	"1"	"0.65"	"0.716"
##	"0.35"	"1"	"0.65"	"0.716"
##	"0.35"	"1"	"0.65"	"0.716"
##	"0.35"	"1"	"0.65"	"0.73"
##	"0.349"	"19"	"17.63"	"3.93"
##	"0.348"	"3"	"2.42"	"1.665"
##	"0.347"	"3"	"2.5"	"1.439"
##	"0.344"	"3"	"2.49"	"1.48"
##	"0.343"	"16"	"14.72"	"3.736"
##	"0.343"	"7"	"6.17"	"2.421"
##	"0.342"	"23"	"21.45"	"4.531"
##	"0.341"	"3"	"2.4"	"1.758"
##	"0.341"	"12"	"10.93"	"3.137"
##	"0.341"	"4"	"3.43"	"1.671"
##	"0.34"	"1"	"0.66"	"0.768"
##	"0.34"	"1"	"0.66"	"0.901"
##	"0.34"	"1"	"0.66"	"0.714"
##	"0.34"	"1"	"0.66"	"0.714"

##	"0.34"	"1"	"0.66"	"0.714"
##	"0.34"	"1"	"0.66"	"0.714"
##	"0.34"	"1"	"0.66"	"0.714"
##	"0.34"	"1"	"0.66"	"0.714"
##	"0.34"	"1"	"0.66"	"0.714"
##	"0.34"	"9"	"7.96"	"3.055"
##	"0.34"	"1"	"0.66"	"0.714"
##	"0.338"	"2"	"1.61"	"1.154"
##	"0.338"	"2"	"1.61"	"1.154"
##	"0.333"	"7"	"6.14"	"2.586"
##	"0.332"	"6"	"5.28"	"2.17"
##	"0.331"	"56"	"53.42"	"7.806"
##	"0.33"	"1"	"0.67"	"0.792"
##	"0.329"	"4"	"3.43"	"1.731"
##	"0.325"	"7"	"6.13"	"2.677"
##	"0.321"	"23"	"21.77"	"3.827"
##	"0.32"	"1"	"0.68"	"0.723"
##	"0.32"	"1"	"0.68"	"0.803"
##	"0.32"	"1"	"0.68"	"0.723"
##	"0.32"	"1"	"0.68"	"0.75"
##	"0.318"	"2"	"1.64"	"1.133"
##	"0.315"	"3"	"2.51"	"1.554"
##	"0.315"	"34"	"32.2"	"5.707"
##	"0.315"	"4"	"3.43"	"1.81"
##	"0.312"	"7"	"6.31"	"2.214"
##	"0.312"	"7"	"6.31"	"2.214"
##	"0.31"	"1"	"0.69"	"0.761"
##	"0.31"	"1"	"0.69"	"0.813"
##	"0.31"	"12"	"10.95"	"3.386"
##	"0.305"	"2"	"1.6"	"1.31"
##	"0.301"	"2"	"1.66"	"1.13"
##	"0.3"	"1"	"0.7"	"0.893"
##	"0.299"	"9"	"8.13"	"2.912"
##	"0.297"	"37"	"35.32"	"5.657"
##	"0.297"	"36"	"34.24"	"5.922"
##	"0.296"	"28"	"26.61"	"4.692"
##	"0.294"	"25"	"23.6"	"4.765"
##	"0.293"	"5"	"4.41"	"2.016"
##	"0.29"	"1"	"0.71"	"0.856"
##	"0.29"	"8"	"7.23"	"2.659"
##	"0.29"	"1"	"0.71"	"0.844"
##	"0.289"	"36"	"34.36"	"5.67"
##	"0.288"	"19"	"17.79"	"4.203"
##	"0.286"	"8"	"7.28"	"2.515"
##	"0.286"	"3"	"2.52"	"1.679"
##	"0.284"	"96"	"93.23"	"9.742"
##	"0.284"	"20"	"18.92"	"3.802"
##	"0.283"	"24"	"22.87"	"3.989"
##	"0.283"	"5"	"4.43"	"2.011"
##	"0.283"	"7"	"6.2"	"2.828"
##	"0.283"	"68"	"65.71"	"8.102"
##	"0.282"	"2"	"1.68"	"1.136"
##	"0.28"	"1"	"0.72"	"0.74"
##	"0.28"	"1"	"0.72"	"0.792"

##	"0.28"	"1"	"0.72"	"0.889"
##	"0.278"	"5"	"4.46"	"1.946"
##	"0.276"	"16"	"15"	"3.629"
##	"0.276"	"2"	"1.64"	"1.307"
##	"0.276"	"40"	"38.25"	"6.347"
##	"0.271"	"17"	"15.93"	"3.945"
##	"0.27"	"1"	"0.73"	"0.777"
##	"0.269"	"64"	"61.91"	"7.776"
##	"0.267"	"35"	"33.35"	"6.18"
##	"0.267"	"28"	"26.53"	"5.5"
##	"0.265"	"7"	"6.33"	"2.531"
##	"0.263"	"76"	"73.83"	"8.261"
##	"0.261"	"3"	"2.59"	"1.571"
##	"0.26"	"1"	"0.74"	"0.76"
##	"0.26"	"2"	"1.68"	"1.23"
##	"0.259"	"4"	"3.55"	"1.737"
##	"0.259"	"30"	"28.56"	"5.564"
##	"0.257"	"14"	"13.01"	"3.849"
##	"0.256"	"14"	"13.09"	"3.556"
##	"0.25"	"1"	"0.75"	"0.796"
##	"0.25"	"1"	"0.75"	"0.821"
##	"0.249"	"49"	"47.41"	"6.379"
##	"0.249"	"24"	"22.81"	"4.786"
##	"0.248"	"4"	"3.51"	"1.977"
##	"0.247"	"2"	"1.69"	"1.253"
##	"0.244"	"46"	"44.55"	"5.935"
##	"0.242"	"6"	"5.52"	"1.987"
##	"0.24"	"1"	"0.76"	"0.922"
##	"0.24"	"1"	"0.76"	"0.922"
##	"0.24"	"1"	"0.76"	"0.933"
##	"0.24"	"1"	"0.76"	"0.922"
##	"0.24"	"1"	"0.76"	"0.866"
##	"0.238"	"21"	"20.08"	"3.866"
##	"0.236"	"14"	"13.17"	"3.511"
##	"0.234"	"2"	"1.7"	"1.283"
##	"0.232"	"2"	"1.73"	"1.162"
##	"0.231"	"143"	"140.6"	"10.381"
##	"0.23"	"1"	"0.77"	"0.941"
##	"0.23"	"21"	"19.94"	"4.607"
##	"0.229"	"25"	"23.81"	"5.191"
##	"0.229"	"17"	"16.19"	"3.538"
##	"0.227"	"3"	"2.66"	"1.499"
##	"0.226"	"38"	"36.66"	"5.936"
##	"0.226"	"159"	"155.84"	"14.008"
##	"0.225"	"48"	"46.38"	"7.197"
##	"0.224"	"22"	"20.99"	"4.5"
##	"0.224"	"380"	"375.62"	"19.561"
##	"0.223"	"9"	"8.32"	"3.048"
##	"0.222"	"22"	"21.01"	"4.466"
##	"0.22"	"14"	"13.15"	"3.867"
##	"0.213"	"18"	"17.05"	"4.453"
##	"0.212"	"11"	"10.24"	"3.582"
##	"0.212"	"14"	"13.28"	"3.391"
##	"0.211"	"11"	"10.34"	"3.121"

##	"0.21"	"1"	"0.79"	"0.795"
##	"0.21"	"4"	"3.6"	"1.902"
##	"0.21"	"1"	"0.79"	"0.844"
##	"0.21"	"1"	"0.79"	"0.924"
##	"0.21"	"1"	"0.79"	"0.935"
##	"0.21"	"1"	"0.79"	"0.808"
##	"0.21"	"1"	"0.79"	"0.88"
##	"0.209"	"3"	"2.65"	"1.678"
##	"0.209"	"2"	"1.74"	"1.244"
##	"0.208"	"4"	"3.62"	"1.83"
##	"0.208"	"4"	"3.62"	"1.83"
##	"0.208"	"84"	"82.34"	"7.991"
##	"0.204"	"2"	"1.74"	"1.276"
##	"0.203"	"4"	"3.65"	"1.725"
##	"0.202"	"14"	"13.29"	"3.511"
##	"0.2"	"1"	"0.8"	"0.876"
##	"0.2"	"1"	"0.8"	"0.791"
##	"0.2"	"1"	"0.8"	"0.876"
##	"0.2"	"1"	"0.8"	"0.876"
##	"0.2"	"1"	"0.8"	"0.943"
##	"0.2"	"1"	"0.8"	"0.91"
##	"0.2"	"1"	"0.8"	"0.876"
##	"0.2"	"1"	"0.8"	"0.876"
##	"0.196"	"4"	"3.63"	"1.889"
##	"0.196"	"6"	"5.56"	"2.244"
##	"0.195"	"30"	"28.92"	"5.539"
##	"0.195"	"5"	"4.61"	"2.005"
##	"0.191"	"15"	"14.28"	"3.771"
##	"0.188"	"4"	"3.67"	"1.758"
##	"0.188"	"3"	"2.7"	"1.592"
##	"0.187"	"2"	"1.76"	"1.28"
##	"0.184"	"12"	"11.48"	"2.819"
##	"0.18"	"1"	"0.82"	"0.925"
##	"0.178"	"22"	"21.31"	"3.876"
##	"0.178"	"2"	"1.78"	"1.236"
##	"0.175"	"2"	"1.79"	"1.2"
##	"0.175"	"2"	"1.79"	"1.2"
##	"0.174"	"54"	"52.8"	"6.912"
##	"0.171"	"30"	"29.11"	"5.209"
##	"0.17"	"1"	"0.83"	"0.954"
##	"0.17"	"1"	"0.83"	"0.829"
##	"0.17"	"76"	"74.52"	"8.731"
##	"0.168"	"17"	"16.3"	"4.177"
##	"0.167"	"105"	"103.22"	"10.656"
##	"0.167"	"16"	"15.33"	"4"
##	"0.166"	"7"	"6.62"	"2.295"
##	"0.166"	"37"	"35.97"	"6.188"
##	"0.166"	"6"	"5.65"	"2.11"
##	"0.161"	"9"	"8.54"	"2.855"
##	"0.16"	"1"	"0.84"	"0.929"
##	"0.159"	"12"	"11.52"	"3.023"
##	"0.158"	"3"	"2.72"	"1.77"
##	"0.156"	"24"	"23.28"	"4.621"
##	"0.152"	"8"	"7.6"	"2.629"

##	"0.15"	"1"	"0.85"	"0.88"
##	"0.146"	"16"	"15.44"	"3.836"
##	"0.145"	"2"	"1.8"	"1.378"
##	"0.144"	"6"	"5.64"	"2.501"
##	"0.143"	"2"	"1.8"	"1.4"
##	"0.14"	"1"	"0.86"	"0.853"
##	"0.14"	"1"	"0.86"	"0.954"
##	"0.14"	"1"	"0.86"	"0.921"
##	"0.14"	"1"	"0.86"	"0.954"
##	"0.14"	"1"	"0.86"	"0.954"
##	"0.14"	"3"	"2.76"	"1.712"
##	"0.14"	"1"	"0.86"	"0.954"
##	"0.139"	"1"	"0.86"	"1.005"
##	"0.139"	"46"	"45.12"	"6.343"
##	"0.138"	"23"	"22.36"	"4.64"
##	"0.138"	"6"	"5.7"	"2.177"
##	"0.136"	"4"	"3.73"	"1.984"
##	"0.134"	"7"	"6.65"	"2.603"
##	"0.132"	"3"	"2.78"	"1.667"
##	"0.131"	"4"	"3.78"	"1.685"
##	"0.131"	"4"	"3.78"	"1.685"
##	"0.131"	"4"	"3.78"	"1.685"
##	"0.13"	"1"	"0.87"	"0.928"
##	"0.13"	"1"	"0.87"	"0.928"
##	"0.129"	"20"	"19.44"	"4.347"
##	"0.126"	"22"	"21.48"	"4.126"
##	"0.126"	"20"	"19.44"	"4.452"
##	"0.126"	"15"	"14.5"	"3.968"
##	"0.126"	"13"	"12.58"	"3.337"
##	"0.125"	"5"	"4.75"	"1.997"
##	"0.12"	"29"	"28.42"	"4.818"
##	"0.119"	"22"	"21.48"	"4.382"
##	"0.119"	"15"	"14.56"	"3.702"
##	"0.119"	"3"	"2.82"	"1.507"
##	"0.116"	"4"	"3.78"	"1.905"
##	"0.115"	"1"	"0.88"	"1.047"
##	"0.115"	"3"	"2.81"	"1.65"
##	"0.115"	"1"	"0.88"	"1.047"
##	"0.11"	"1"	"0.89"	"0.973"
##	"0.11"	"1"	"0.89"	"0.92"
##	"0.106"	"2"	"1.87"	"1.228"
##	"0.106"	"6"	"5.76"	"2.261"
##	"0.104"	"20"	"19.55"	"4.317"
##	"0.103"	"3"	"2.79"	"2.041"
##	"0.103"	"5"	"4.78"	"2.13"
##	"0.103"	"6"	"5.79"	"2.037"
##	"0.103"	"3"	"2.79"	"2.041"
##	"0.103"	"3"	"2.79"	"2.041"
##	"0.101"	"125"	"123.88"	"11.109"
##	"0.101"	"62"	"61.22"	"7.705"
##	"0.099"	"16"	"15.6"	"4.04"
##	"0.098"	"46"	"45.44"	"5.734"
##	"0.097"	"2"	"1.87"	"1.338"
##	"0.094"	"3"	"2.85"	"1.598"

##	"0.092"	"2"	"1.87"	"1.412"
##	"0.091"	"4"	"3.85"	"1.648"
##	"0.09"	"1"	"0.91"	"0.965"
##	"0.09"	"12"	"11.66"	"3.764"
##	"0.089"	"63"	"62.35"	"7.265"
##	"0.089"	"1"	"0.91"	"1.006"
##	"0.089"	"1"	"0.91"	"1.006"
##	"0.084"	"6"	"5.8"	"2.374"
##	"0.083"	"64"	"63.44"	"6.742"
##	"0.083"	"12"	"11.72"	"3.373"
##	"0.083"	"10"	"9.78"	"2.654"
##	"0.083"	"2"	"1.88"	"1.451"
##	"0.082"	"3"	"2.87"	"1.587"
##	"0.082"	"23"	"22.66"	"4.147"
##	"0.082"	"3"	"2.85"	"1.839"
##	"0.082"	"3"	"2.87"	"1.587"
##	"0.082"	"3"	"2.87"	"1.587"
##	"0.082"	"3"	"2.87"	"1.587"
##	"0.082"	"3"	"2.87"	"1.587"
##	"0.081"	"4"	"3.85"	"1.861"
##	"0.08"	"1"	"0.92"	"0.929"
##	"0.08"	"1"	"0.92"	"0.961"
##	"0.08"	"1"	"0.92"	"0.895"
##	"0.08"	"1"	"0.92"	"0.929"
##	"0.079"	"2"	"1.9"	"1.259"
##	"0.078"	"3"	"2.88"	"1.546"
##	"0.077"	"2"	"1.89"	"1.435"
##	"0.074"	"9"	"8.77"	"3.12"
##	"0.072"	"5"	"4.85"	"2.091"
##	"0.07"	"2"	"1.91"	"1.288"
##	"0.07"	"32"	"31.67"	"4.701"
##	"0.069"	"31"	"30.63"	"5.331"
##	"0.065"	"32"	"31.64"	"5.571"
##	"0.065"	"9"	"8.8"	"3.091"
##	"0.064"	"48"	"47.59"	"6.436"
##	"0.063"	"5"	"4.86"	"2.216"
##	"0.063"	"5"	"4.86"	"2.216"
##	"0.063"	"29"	"28.67"	"5.271"
##	"0.063"	"3"	"2.89"	"1.734"
##	"0.062"	"11"	"10.81"	"3.047"
##	"0.06"	"1"	"0.94"	"0.93"
##	"0.06"	"2"	"1.92"	"1.331"
##	"0.06"	"1"	"0.94"	"0.839"
##	"0.06"	"1"	"0.94"	"0.886"
##	"0.059"	"2"	"1.92"	"1.346"
##	"0.056"	"8"	"7.84"	"2.859"
##	"0.055"	"3"	"2.92"	"1.461"
##	"0.055"	"35"	"34.72"	"5.115"
##	"0.053"	"15"	"14.8"	"3.763"
##	"0.052"	"42"	"41.66"	"6.542"
##	"0.05"	"1"	"0.95"	"0.892"
##	"0.049"	"66"	"65.65"	"7.072"
##	"0.047"	"4"	"3.9"	"2.134"
##	"0.046"	"119"	"118.48"	"11.294"

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##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"-0.003"	"40"	"40.02"	"6.143"
##	"-0.005"	"65"	"65.04"	"7.964"
##	"-0.005"	"16"	"16.02"	"3.723"
##	"-0.005"	"6"	"6.01"	"2.177"
##	"-0.005"	"5"	"5.01"	"2.115"

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##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.022"	"2"	"2.03"	"1.381"
##	"-0.022"	"2"	"2.03"	"1.359"
##	"-0.022"	"4"	"4.04"	"1.836"
##	"-0.022"	"36"	"36.13"	"5.925"
##	"-0.024"	"6"	"6.07"	"2.868"
##	"-0.024"	"198"	"198.32"	"13.545"
##	"-0.024"	"2"	"2.03"	"1.267"
##	"-0.024"	"6"	"6.06"	"2.534"
##	"-0.025"	"12"	"12.09"	"3.554"
##	"-0.025"	"4"	"4.05"	"1.961"
##	"-0.028"	"89"	"89.26"	"9.217"
##	"-0.028"	"9"	"9.08"	"2.824"
##	"-0.028"	"2"	"2.04"	"1.449"
##	"-0.03"	"0"	"0.03"	"0.171"
##	"-0.03"	"0"	"0.03"	"0.171"
##	"-0.03"	"0"	"0.03"	"0.171"
##	"-0.03"	"0"	"0.03"	"0.171"
##	"-0.03"	"0"	"0.03"	"0.171"

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##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.278"
##	"-0.06"	"0"	"0.06"	"0.278"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"1"	"1.06"	"0.993"
##	"-0.06"	"0"	"0.06"	"0.278"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"1"	"1.06"	"0.993"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"1"	"1.06"	"0.973"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.278"
##	"-0.06"	"0"	"0.06"	"0.278"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.062"	"35"	"35.34"	"5.511"
##	"-0.063"	"1"	"1.07"	"1.103"
##	"-0.064"	"24"	"24.3"	"4.659"
##	"-0.064"	"159"	"159.9"	"14.098"
##	"-0.066"	"41"	"41.46"	"6.956"
##	"-0.066"	"37"	"37.4"	"6.072"
##	"-0.067"	"5"	"5.14"	"2.103"
##	"-0.067"	"1"	"1.07"	"1.047"
##	"-0.067"	"4"	"4.14"	"2.089"
##	"-0.068"	"97"	"97.58"	"8.488"
##	"-0.069"	"327"	"328.22"	"17.646"
##	"-0.07"	"0"	"0.07"	"0.256"
##	"-0.07"	"0"	"0.07"	"0.256"
##	"-0.07"	"0"	"0.07"	"0.256"
##	"-0.07"	"0"	"0.07"	"0.256"

[illegible]

##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.307"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.307"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"56"	"56.58"	"7.21"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.307"
##	"-0.08"	"1"	"1.09"	"1.129"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.307"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.307"
##	"-0.08"	"0"	"0.08"	"0.307"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.307"
##	"-0.08"	"0"	"0.08"	"0.307"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.307"
##	"-0.08"	"0"	"0.08"	"0.307"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.081"	"2"	"2.12"	"1.486"
##	"-0.082"	"38"	"38.51"	"6.245"
##	"-0.082"	"3"	"3.14"	"1.718"
##	"-0.083"	"395"	"397.09"	"25.198"
##	"-0.086"	"79"	"79.61"	"7.088"
##	"-0.086"	"1"	"1.1"	"1.159"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"

##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"87"	"87.89"	"9.872"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"17"	"17.35"	"3.896"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.091"	"6"	"6.22"	"2.419"
##	"-0.091"	"18"	"18.36"	"3.971"
##	"-0.091"	"6"	"6.22"	"2.41"
##	"-0.092"	"105"	"105.97"	"10.595"
##	"-0.097"	"26"	"26.41"	"4.209"
##	"-0.098"	"1"	"1.11"	"1.118"
##	"-0.099"	"7"	"7.25"	"2.528"
##	"-0.099"	"2"	"2.15"	"1.513"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"

##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.389"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"1"	"1.1"	"0.969"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"24"	"24.43"	"4.298"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.389"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.102"	"23"	"23.51"	"5.006"
##	"-0.103"	"37"	"37.62"	"6.045"
##	"-0.103"	"3"	"3.16"	"1.549"
##	"-0.103"	"3"	"3.16"	"1.549"
##	"-0.103"	"3"	"3.16"	"1.549"
##	"-0.103"	"3"	"3.16"	"1.549"
##	"-0.103"	"3"	"3.16"	"1.549"
##	"-0.103"	"3"	"3.16"	"1.549"
##	"-0.103"	"3"	"3.16"	"1.549"
##	"-0.104"	"2"	"2.13"	"1.253"
##	"-0.104"	"2"	"2.15"	"1.445"
##	"-0.106"	"9"	"9.31"	"2.933"
##	"-0.109"	"1"	"1.12"	"1.104"
##	"-0.109"	"136"	"137.35"	"12.373"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.373"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.345"

##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.373"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"1"	"1.11"	"0.92"
##	"-0.11"	"0"	"0.11"	"0.399"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.373"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"22"	"22.56"	"5.07"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.111"	"2"	"2.16"	"1.441"
##	"-0.115"	"1"	"1.12"	"1.047"
##	"-0.115"	"1"	"1.12"	"1.047"
##	"-0.116"	"1"	"1.12"	"1.037"
##	"-0.12"	"0"	"0.12"	"0.409"
##	"-0.12"	"0"	"0.12"	"0.356"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.409"
##	"-0.12"	"2"	"2.15"	"1.25"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.356"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.356"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.409"

##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.356"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.356"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"1"	"1.12"	"0.956"
##	"-0.12"	"0"	"0.12"	"0.356"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.356"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.121"	"59"	"60.01"	"8.348"
##	"-0.122"	"3"	"3.21"	"1.719"
##	"-0.122"	"57"	"57.92"	"7.518"
##	"-0.123"	"6"	"6.31"	"2.529"
##	"-0.126"	"4"	"4.26"	"2.063"
##	"-0.127"	"2"	"2.18"	"1.417"
##	"-0.129"	"3"	"3.23"	"1.78"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.393"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"11"	"11.46"	"3.54"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.393"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"15"	"15.48"	"3.705"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.393"
##	"-0.13"	"0"	"0.13"	"0.393"
##	"-0.13"	"0"	"0.13"	"0.338"

[illegible]

##	"-0.14"	"0"	"0.14"	"0.377"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.141"	"16"	"16.54"	"3.841"
##	"-0.144"	"1"	"1.15"	"1.038"
##	"-0.144"	"3"	"3.22"	"1.528"
##	"-0.147"	"5"	"5.31"	"2.112"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"31"	"31.84"	"5.606"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"0"	"0.15"	"0.411"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.411"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.435"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"0"	"0.15"	"0.411"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.458"
##	"-0.15"	"0"	"0.15"	"0.411"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"0"	"0.15"	"0.411"
##	"-0.15"	"0"	"0.15"	"0.435"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"1"	"1.15"	"0.999"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.411"
##	"-0.15"	"0"	"0.15"	"0.411"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.411"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.154"	"36"	"36.85"	"5.518"
##	"-0.154"	"61"	"62.12"	"7.269"
##	"-0.155"	"4"	"4.32"	"2.064"
##	"-0.157"	"1"	"1.17"	"1.083"
##	"-0.158"	"1"	"1.18"	"1.14"
##	"-0.158"	"1"	"1.18"	"1.14"
##	"-0.159"	"9"	"9.5"	"3.154"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.443"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.368"

##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.42"
##	"-0.16"	"0"	"0.16"	"0.465"
##	"-0.16"	"0"	"0.16"	"0.465"
##	"-0.16"	"0"	"0.16"	"0.42"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.443"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.42"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.443"
##	"-0.16"	"0"	"0.16"	"0.42"
##	"-0.16"	"0"	"0.16"	"0.465"
##	"-0.16"	"0"	"0.16"	"0.42"
##	"-0.16"	"0"	"0.16"	"0.42"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.42"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.42"
##	"-0.161"	"54"	"55.09"	"6.766"
##	"-0.162"	"2"	"2.21"	"1.297"
##	"-0.162"	"2"	"2.24"	"1.485"
##	"-0.164"	"95"	"96.32"	"8.046"
##	"-0.164"	"160"	"161.81"	"11.037"
##	"-0.165"	"52"	"53.03"	"6.237"
##	"-0.166"	"12"	"12.59"	"3.548"
##	"-0.167"	"1"	"1.19"	"1.134"
##	"-0.167"	"110"	"111.87"	"11.173"
##	"-0.167"	"1"	"1.18"	"1.077"
##	"-0.167"	"1"	"1.18"	"1.077"
##	"-0.169"	"29"	"29.79"	"4.672"
##	"-0.169"	"64"	"65.19"	"7.043"
##	"-0.169"	"1"	"1.19"	"1.125"
##	"-0.17"	"59"	"60.21"	"7.134"
##	"-0.17"	"0"	"0.17"	"0.403"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.451"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.403"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.428"

##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.403"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"46"	"47.24"	"7.303"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.403"
##	"-0.17"	"0"	"0.17"	"0.451"
##	"-0.17"	"0"	"0.17"	"0.403"
##	"-0.17"	"0"	"0.17"	"0.403"
##	"-0.17"	"0"	"0.17"	"0.473"
##	"-0.17"	"0"	"0.17"	"0.403"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.403"
##	"-0.17"	"0"	"0.17"	"0.403"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.403"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.403"
##	"-0.171"	"12"	"12.58"	"3.391"
##	"-0.173"	"3"	"3.29"	"1.678"
##	"-0.173"	"3"	"3.3"	"1.732"
##	"-0.174"	"5"	"5.38"	"2.182"
##	"-0.175"	"9"	"9.49"	"2.801"
##	"-0.176"	"10"	"10.55"	"3.131"
##	"-0.178"	"4"	"4.33"	"1.859"
##	"-0.178"	"4"	"4.33"	"1.859"
##	"-0.178"	"43"	"44.22"	"6.845"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.386"
##	"-0.18"	"0"	"0.18"	"0.458"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.479"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"1"	"1.18"	"0.869"
##	"-0.18"	"0"	"0.18"	"0.386"
##	"-0.18"	"0"	"0.18"	"0.479"
##	"-0.18"	"0"	"0.18"	"0.458"

##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.386"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.458"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.458"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.386"
##	"-0.18"	"0"	"0.18"	"0.386"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.386"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.184"	"10"	"10.56"	"3.049"
##	"-0.189"	"23"	"23.95"	"5.018"
##	"-0.19"	"0"	"0.19"	"0.465"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.506"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.465"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.465"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.443"
##	"-0.19"	"0"	"0.19"	"0.443"
##	"-0.19"	"0"	"0.19"	"0.486"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.486"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.465"
##	"-0.19"	"0"	"0.19"	"0.486"
##	"-0.191"	"68"	"69.66"	"8.682"
##	"-0.193"	"11"	"11.65"	"3.368"
##	"-0.194"	"12"	"12.79"	"4.078"
##	"-0.195"	"31"	"32.1"	"5.633"

##	"-0.195"	"22"	"22.86"	"4.402"
##	"-0.196"	"19"	"19.9"	"4.591"
##	"-0.198"	"13"	"13.73"	"3.684"
##	"-0.2"	"0"	"0.2"	"0.426"
##	"-0.2"	"0"	"0.2"	"0.426"
##	"-0.2"	"0"	"0.2"	"0.426"
##	"-0.2"	"0"	"0.2"	"0.426"
##	"-0.2"	"0"	"0.2"	"0.449"
##	"-0.2"	"0"	"0.2"	"0.426"
##	"-0.2"	"15"	"15.85"	"4.251"
##	"-0.2"	"0"	"0.2"	"0.449"
##	"-0.2"	"0"	"0.2"	"0.426"
##	"-0.2"	"0"	"0.2"	"0.449"
##	"-0.2"	"6"	"6.5"	"2.501"
##	"-0.2"	"0"	"0.2"	"0.471"
##	"-0.2"	"0"	"0.2"	"0.402"
##	"-0.2"	"0"	"0.2"	"0.426"
##	"-0.2"	"0"	"0.2"	"0.426"
##	"-0.2"	"0"	"0.2"	"0.402"
##	"-0.2"	"0"	"0.2"	"0.402"
##	"-0.2"	"0"	"0.2"	"0.492"
##	"-0.2"	"0"	"0.2"	"0.471"
##	"-0.201"	"1"	"1.22"	"1.097"
##	"-0.202"	"19"	"19.84"	"4.165"
##	"-0.203"	"11"	"11.63"	"3.097"
##	"-0.203"	"8"	"8.48"	"2.363"
##	"-0.203"	"2"	"2.29"	"1.431"
##	"-0.204"	"1"	"1.21"	"1.028"
##	"-0.204"	"1"	"1.21"	"1.028"
##	"-0.204"	"1"	"1.21"	"1.028"
##	"-0.206"	"1"	"1.22"	"1.069"
##	"-0.207"	"40"	"41.1"	"5.325"
##	"-0.209"	"3"	"3.4"	"1.917"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.433"
##	"-0.21"	"0"	"0.21"	"0.433"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.409"
##	"-0.21"	"0"	"0.21"	"0.518"
##	"-0.21"	"0"	"0.21"	"0.433"
##	"-0.21"	"0"	"0.21"	"0.433"
##	"-0.21"	"0"	"0.21"	"0.478"
##	"-0.21"	"0"	"0.21"	"0.433"
##	"-0.21"	"0"	"0.21"	"0.433"
##	"-0.21"	"0"	"0.21"	"0.433"
##	"-0.21"	"0"	"0.21"	"0.518"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.433"
##	"-0.21"	"0"	"0.21"	"0.478"
##	"-0.21"	"0"	"0.21"	"0.433"
##	"-0.21"	"0"	"0.21"	"0.433"
##	"-0.21"	"0"	"0.21"	"0.433"

##	"-0.21"	"0"	"0.21"	"0.518"
##	"-0.21"	"0"	"0.21"	"0.498"
##	"-0.21"	"0"	"0.21"	"0.498"
##	"-0.21"	"0"	"0.21"	"0.518"
##	"-0.21"	"0"	"0.21"	"0.518"
##	"-0.21"	"0"	"0.21"	"0.478"
##	"-0.21"	"0"	"0.21"	"0.409"
##	"-0.21"	"71"	"72.68"	"8.009"
##	"-0.213"	"25"	"25.87"	"4.084"
##	"-0.215"	"10"	"10.65"	"3.02"
##	"-0.215"	"29"	"30.15"	"5.344"
##	"-0.219"	"87"	"88.78"	"8.14"
##	"-0.22"	"2"	"2.31"	"1.412"
##	"-0.22"	"17"	"17.86"	"3.913"
##	"-0.22"	"0"	"0.22"	"0.484"
##	"-0.22"	"0"	"0.22"	"0.484"
##	"-0.22"	"0"	"0.22"	"0.484"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"0"	"0.22"	"0.484"
##	"-0.22"	"0"	"0.22"	"0.524"
##	"-0.22"	"0"	"0.22"	"0.462"
##	"-0.22"	"0"	"0.22"	"0.484"
##	"-0.22"	"0"	"0.22"	"0.561"
##	"-0.22"	"0"	"0.22"	"0.484"
##	"-0.22"	"0"	"0.22"	"0.462"
##	"-0.22"	"0"	"0.22"	"0.462"
##	"-0.22"	"0"	"0.22"	"0.462"
##	"-0.22"	"0"	"0.22"	"0.462"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"0"	"0.22"	"0.484"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"0"	"0.22"	"0.462"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"4"	"4.47"	"2.139"
##	"-0.22"	"0"	"0.22"	"0.462"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"0"	"0.22"	"0.484"
##	"-0.22"	"0"	"0.22"	"0.462"
##	"-0.22"	"0"	"0.22"	"0.462"
##	"-0.22"	"0"	"0.22"	"0.504"
##	"-0.222"	"4"	"4.45"	"2.027"
##	"-0.224"	"140"	"142.62"	"11.682"
##	"-0.225"	"8"	"8.71"	"3.15"
##	"-0.228"	"3"	"3.4"	"1.752"
##	"-0.228"	"28"	"29.23"	"5.395"
##	"-0.228"	"2"	"2.35"	"1.533"
##	"-0.23"	"0"	"0.23"	"0.489"
##	"-0.23"	"0"	"0.23"	"0.423"
##	"-0.23"	"0"	"0.23"	"0.423"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.489"

##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.468"
##	"-0.23"	"0"	"0.23"	"0.529"
##	"-0.23"	"0"	"0.23"	"0.51"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.51"
##	"-0.23"	"0"	"0.23"	"0.468"
##	"-0.23"	"0"	"0.23"	"0.529"
##	"-0.23"	"0"	"0.23"	"0.423"
##	"-0.23"	"0"	"0.23"	"0.51"
##	"-0.23"	"0"	"0.23"	"0.468"
##	"-0.23"	"61"	"62.63"	"7.102"
##	"-0.23"	"0"	"0.23"	"0.548"
##	"-0.23"	"0"	"0.23"	"0.468"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.51"
##	"-0.23"	"0"	"0.23"	"0.468"
##	"-0.23"	"0"	"0.23"	"0.468"
##	"-0.23"	"0"	"0.23"	"0.529"
##	"-0.23"	"0"	"0.23"	"0.529"
##	"-0.23"	"0"	"0.23"	"0.468"
##	"-0.23"	"0"	"0.23"	"0.489"
##	"-0.231"	"8"	"8.67"	"2.896"
##	"-0.232"	"3"	"3.41"	"1.77"
##	"-0.233"	"20"	"21.07"	"4.584"
##	"-0.233"	"19"	"19.92"	"3.941"
##	"-0.235"	"32"	"33.4"	"5.963"
##	"-0.237"	"3"	"3.45"	"1.898"
##	"-0.238"	"31"	"32.39"	"5.838"
##	"-0.239"	"34"	"35.3"	"5.43"
##	"-0.239"	"35"	"36.35"	"5.658"
##	"-0.24"	"4"	"4.47"	"1.962"
##	"-0.24"	"0"	"0.24"	"0.495"
##	"-0.24"	"0"	"0.24"	"0.452"
##	"-0.24"	"0"	"0.24"	"0.515"
##	"-0.24"	"1"	"1.27"	"1.127"
##	"-0.24"	"1"	"1.27"	"1.127"
##	"-0.24"	"0"	"0.24"	"0.452"
##	"-0.24"	"0"	"0.24"	"0.474"
##	"-0.24"	"0"	"0.24"	"0.495"
##	"-0.24"	"0"	"0.24"	"0.495"
##	"-0.24"	"0"	"0.24"	"0.515"
##	"-0.24"	"0"	"0.24"	"0.553"
##	"-0.24"	"0"	"0.24"	"0.452"
##	"-0.24"	"0"	"0.24"	"0.495"
##	"-0.24"	"0"	"0.24"	"0.495"
##	"-0.24"	"0"	"0.24"	"0.495"
##	"-0.24"	"0"	"0.24"	"0.474"
##	"-0.24"	"0"	"0.24"	"0.452"
##	"-0.24"	"0"	"0.24"	"0.534"
##	"-0.24"	"2"	"2.34"	"1.416"

##	"-0.24"	"0"	"0.24"	"0.534"
##	"-0.24"	"0"	"0.24"	"0.495"
##	"-0.241"	"2"	"2.37"	"1.535"
##	"-0.244"	"131"	"133.78"	"11.37"
##	"-0.245"	"13"	"13.88"	"3.591"
##	"-0.248"	"1"	"1.28"	"1.129"
##	"-0.248"	"1"	"1.26"	"1.05"
##	"-0.248"	"13"	"13.96"	"3.877"
##	"-0.248"	"1"	"1.3"	"1.21"
##	"-0.249"	"2"	"2.4"	"1.608"
##	"-0.25"	"0"	"0.25"	"0.479"
##	"-0.25"	"0"	"0.25"	"0.5"
##	"-0.25"	"0"	"0.25"	"0.458"
##	"-0.25"	"1"	"1.27"	"1.081"
##	"-0.25"	"1"	"1.27"	"1.081"
##	"-0.25"	"0"	"0.25"	"0.458"
##	"-0.25"	"0"	"0.25"	"0.458"
##	"-0.25"	"0"	"0.25"	"0.458"
##	"-0.25"	"0"	"0.25"	"0.479"
##	"-0.25"	"0"	"0.25"	"0.5"
##	"-0.25"	"0"	"0.25"	"0.479"
##	"-0.25"	"0"	"0.25"	"0.5"
##	"-0.25"	"1"	"1.27"	"1.081"
##	"-0.25"	"1"	"1.27"	"1.081"
##	"-0.25"	"0"	"0.25"	"0.5"
##	"-0.25"	"0"	"0.25"	"0.5"
##	"-0.25"	"0"	"0.25"	"0.5"
##	"-0.25"	"1"	"1.27"	"1.081"
##	"-0.25"	"0"	"0.25"	"0.458"
##	"-0.25"	"1"	"1.27"	"1.081"
##	"-0.25"	"0"	"0.25"	"0.458"
##	"-0.25"	"0"	"0.25"	"0.479"
##	"-0.25"	"0"	"0.25"	"0.435"
##	"-0.25"	"0"	"0.25"	"0.479"
##	"-0.25"	"0"	"0.25"	"0.5"
##	"-0.25"	"0"	"0.25"	"0.458"
##	"-0.25"	"0"	"0.25"	"0.458"
##	"-0.25"	"1"	"1.27"	"1.081"
##	"-0.25"	"1"	"1.27"	"1.081"
##	"-0.25"	"0"	"0.25"	"0.575"
##	"-0.25"	"0"	"0.25"	"0.575"
##	"-0.25"	"1"	"1.27"	"1.081"
##	"-0.256"	"1"	"1.28"	"1.092"
##	"-0.256"	"12"	"13.03"	"4.024"
##	"-0.256"	"1"	"1.27"	"1.053"
##	"-0.257"	"1"	"1.32"	"1.246"
##	"-0.257"	"5"	"5.58"	"2.253"
##	"-0.258"	"6"	"6.63"	"2.44"
##	"-0.258"	"46"	"47.76"	"6.833"
##	"-0.258"	"25"	"26.18"	"4.573"
##	"-0.259"	"3"	"3.49"	"1.894"
##	"-0.259"	"1"	"1.29"	"1.122"
##	"-0.26"	"0"	"0.26"	"0.505"
##	"-0.26"	"0"	"0.26"	"0.441"

##	"-0.26"	"0"	"0.26"	"0.543"
##	"-0.26"	"0"	"0.26"	"0.441"
##	"-0.26"	"0"	"0.26"	"0.441"
##	"-0.26"	"0"	"0.26"	"0.441"
##	"-0.26"	"0"	"0.26"	"0.441"
##	"-0.26"	"0"	"0.26"	"0.505"
##	"-0.26"	"0"	"0.26"	"0.505"
##	"-0.26"	"0"	"0.26"	"0.463"
##	"-0.26"	"0"	"0.26"	"0.463"
##	"-0.26"	"0"	"0.26"	"0.525"
##	"-0.26"	"0"	"0.26"	"0.525"
##	"-0.26"	"0"	"0.26"	"0.505"
##	"-0.26"	"0"	"0.26"	"0.441"
##	"-0.26"	"0"	"0.26"	"0.441"
##	"-0.26"	"0"	"0.26"	"0.463"
##	"-0.26"	"0"	"0.26"	"0.505"
##	"-0.26"	"0"	"0.26"	"0.463"
##	"-0.26"	"0"	"0.26"	"0.485"
##	"-0.26"	"0"	"0.26"	"0.463"
##	"-0.26"	"0"	"0.26"	"0.525"
##	"-0.26"	"0"	"0.26"	"0.543"
##	"-0.26"	"0"	"0.26"	"0.505"
##	"-0.26"	"0"	"0.26"	"0.505"
##	"-0.26"	"0"	"0.26"	"0.525"
##	"-0.26"	"0"	"0.26"	"0.505"
##	"-0.262"	"4"	"4.58"	"2.216"
##	"-0.264"	"41"	"42.7"	"6.438"
##	"-0.264"	"232"	"235.74"	"14.175"
##	"-0.265"	"2"	"2.43"	"1.622"
##	"-0.269"	"6"	"6.72"	"2.678"
##	"-0.269"	"14"	"14.98"	"3.638"
##	"-0.269"	"12"	"12.82"	"3.053"
##	"-0.269"	"3"	"3.55"	"2.047"
##	"-0.27"	"0"	"0.27"	"0.468"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.489"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.584"
##	"-0.27"	"0"	"0.27"	"0.529"
##	"-0.27"	"0"	"0.27"	"0.529"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.529"
##	"-0.27"	"0"	"0.27"	"0.548"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.566"
##	"-0.27"	"0"	"0.27"	"0.468"
##	"-0.27"	"0"	"0.27"	"0.548"
##	"-0.27"	"0"	"0.27"	"0.468"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.529"

##	"-0.27"	"0"	"0.27"	"0.566"
##	"-0.27"	"0"	"0.27"	"0.548"
##	"-0.271"	"138"	"141.04"	"11.235"
##	"-0.272"	"1"	"1.29"	"1.066"
##	"-0.272"	"4"	"4.55"	"2.022"
##	"-0.272"	"2"	"2.39"	"1.435"
##	"-0.273"	"17"	"18.13"	"4.143"
##	"-0.273"	"31"	"32.6"	"5.867"
##	"-0.276"	"6"	"6.76"	"2.757"
##	"-0.277"	"2"	"2.44"	"1.591"
##	"-0.28"	"0"	"0.28"	"0.533"
##	"-0.28"	"0"	"0.28"	"0.514"
##	"-0.28"	"0"	"0.28"	"0.494"
##	"-0.28"	"0"	"0.28"	"0.533"
##	"-0.28"	"0"	"0.28"	"0.494"
##	"-0.28"	"0"	"0.28"	"0.494"
##	"-0.28"	"0"	"0.28"	"0.494"
##	"-0.28"	"0"	"0.28"	"0.473"
##	"-0.28"	"0"	"0.28"	"0.494"
##	"-0.28"	"0"	"0.28"	"0.587"
##	"-0.28"	"0"	"0.28"	"0.533"
##	"-0.28"	"0"	"0.28"	"0.621"
##	"-0.28"	"0"	"0.28"	"0.533"
##	"-0.28"	"0"	"0.28"	"0.621"
##	"-0.28"	"0"	"0.28"	"0.514"
##	"-0.28"	"0"	"0.28"	"0.494"
##	"-0.28"	"0"	"0.28"	"0.514"
##	"-0.28"	"0"	"0.28"	"0.494"
##	"-0.28"	"0"	"0.28"	"0.552"
##	"-0.283"	"5"	"5.65"	"2.293"
##	"-0.283"	"5"	"5.65"	"2.293"
##	"-0.284"	"2"	"2.45"	"1.585"
##	"-0.284"	"167"	"170.16"	"11.12"
##	"-0.284"	"29"	"30.64"	"5.774"
##	"-0.284"	"1"	"1.32"	"1.127"
##	"-0.285"	"30"	"31.54"	"5.394"
##	"-0.285"	"19"	"20.34"	"4.697"
##	"-0.285"	"10"	"10.87"	"3.054"
##	"-0.287"	"45"	"46.76"	"6.137"
##	"-0.287"	"11"	"11.89"	"3.097"
##	"-0.289"	"1"	"1.35"	"1.209"
##	"-0.289"	"1"	"1.35"	"1.209"
##	"-0.29"	"0"	"0.29"	"0.556"
##	"-0.29"	"3"	"3.49"	"1.691"
##	"-0.29"	"0"	"0.29"	"0.556"
##	"-0.29"	"0"	"0.29"	"0.591"
##	"-0.29"	"0"	"0.29"	"0.537"
##	"-0.29"	"4"	"4.55"	"1.898"
##	"-0.29"	"0"	"0.29"	"0.537"
##	"-0.29"	"0"	"0.29"	"0.556"
##	"-0.29"	"0"	"0.29"	"0.556"
##	"-0.29"	"9"	"9.94"	"3.244"
##	"-0.291"	"35"	"36.6"	"5.49"
##	"-0.291"	"1"	"1.41"	"1.408"

##	"-0.298"	"2"	"2.47"	"1.579"
##	"-0.299"	"2"	"2.46"	"1.54"
##	"-0.3"	"0"	"0.3"	"0.522"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.577"
##	"-0.3"	"0"	"0.3"	"0.577"
##	"-0.3"	"0"	"0.3"	"0.577"
##	"-0.3"	"0"	"0.3"	"0.522"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.595"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.541"
##	"-0.3"	"7"	"7.82"	"2.732"
##	"-0.3"	"0"	"0.3"	"0.595"
##	"-0.3"	"0"	"0.3"	"0.482"
##	"-0.3"	"0"	"0.3"	"0.482"
##	"-0.3"	"0"	"0.3"	"0.522"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"3"	"3.54"	"1.8"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.482"
##	"-0.3"	"0"	"0.3"	"0.482"
##	"-0.3"	"0"	"0.3"	"0.56"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.577"
##	"-0.3"	"0"	"0.3"	"0.577"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.482"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.522"
##	"-0.3"	"0"	"0.3"	"0.522"
##	"-0.301"	"9"	"9.86"	"2.86"
##	"-0.303"	"10"	"10.92"	"3.034"
##	"-0.304"	"622"	"631.56"	"31.469"
##	"-0.304"	"4"	"4.6"	"1.975"
##	"-0.305"	"30"	"31.52"	"4.98"
##	"-0.305"	"7"	"7.74"	"2.427"
##	"-0.305"	"7"	"7.74"	"2.427"
##	"-0.305"	"7"	"7.74"	"2.427"
##	"-0.305"	"7"	"7.74"	"2.427"
##	"-0.306"	"3"	"3.62"	"2.029"
##	"-0.306"	"19"	"20.13"	"3.697"
##	"-0.308"	"72"	"74.45"	"7.946"
##	"-0.309"	"27"	"28.66"	"5.371"
##	"-0.309"	"36"	"37.69"	"5.466"
##	"-0.31"	"0"	"0.31"	"0.526"
##	"-0.31"	"0"	"0.31"	"0.581"
##	"-0.31"	"0"	"0.31"	"0.545"

##	"-0.31"	"0"	"0.31"	"0.545"
##	"-0.31"	"0"	"0.31"	"0.545"
##	"-0.31"	"0"	"0.31"	"0.563"
##	"-0.31"	"0"	"0.31"	"0.545"
##	"-0.31"	"0"	"0.31"	"0.581"
##	"-0.31"	"0"	"0.31"	"0.563"
##	"-0.31"	"0"	"0.31"	"0.581"
##	"-0.31"	"1"	"1.37"	"1.195"
##	"-0.31"	"0"	"0.31"	"0.526"
##	"-0.31"	"0"	"0.31"	"0.545"
##	"-0.31"	"0"	"0.31"	"0.563"
##	"-0.31"	"0"	"0.31"	"0.563"
##	"-0.31"	"0"	"0.31"	"0.545"
##	"-0.311"	"1"	"1.34"	"1.094"
##	"-0.312"	"8"	"8.88"	"2.822"
##	"-0.313"	"2"	"2.5"	"1.599"
##	"-0.314"	"55"	"57.57"	"8.184"
##	"-0.316"	"39"	"40.97"	"6.24"
##	"-0.318"	"2"	"2.5"	"1.573"
##	"-0.318"	"2"	"2.5"	"1.573"
##	"-0.319"	"525"	"531.74"	"21.144"
##	"-0.32"	"0"	"0.32"	"0.584"
##	"-0.32"	"0"	"0.32"	"0.584"
##	"-0.32"	"0"	"0.32"	"0.566"
##	"-0.32"	"0"	"0.32"	"0.51"
##	"-0.32"	"0"	"0.32"	"0.584"
##	"-0.32"	"0"	"0.32"	"0.584"
##	"-0.32"	"0"	"0.32"	"0.649"
##	"-0.32"	"0"	"0.32"	"0.548"
##	"-0.32"	"0"	"0.32"	"0.566"
##	"-0.32"	"0"	"0.32"	"0.51"
##	"-0.32"	"2"	"2.48"	"1.501"
##	"-0.32"	"0"	"0.32"	"0.584"
##	"-0.32"	"0"	"0.32"	"0.584"
##	"-0.32"	"0"	"0.32"	"0.618"
##	"-0.32"	"0"	"0.32"	"0.53"
##	"-0.322"	"2"	"2.52"	"1.617"
##	"-0.324"	"2"	"2.51"	"1.573"
##	"-0.324"	"2"	"2.51"	"1.573"
##	"-0.325"	"1"	"1.38"	"1.17"
##	"-0.325"	"173"	"177.17"	"12.836"
##	"-0.325"	"3"	"3.59"	"1.815"
##	"-0.326"	"1"	"1.37"	"1.134"
##	"-0.326"	"1"	"1.36"	"1.106"
##	"-0.326"	"1"	"1.37"	"1.134"
##	"-0.326"	"1"	"1.37"	"1.134"
##	"-0.326"	"1"	"1.37"	"1.134"
##	"-0.328"	"27"	"28.63"	"4.97"
##	"-0.33"	"0"	"0.33"	"0.587"
##	"-0.33"	"0"	"0.33"	"0.551"
##	"-0.33"	"1"	"1.38"	"1.153"
##	"-0.33"	"0"	"0.33"	"0.57"
##	"-0.33"	"0"	"0.33"	"0.551"
##	"-0.33"	"0"	"0.33"	"0.604"

##	"-0.33"	"0"	"0.33"	"0.57"
##	"-0.33"	"0"	"0.33"	"0.587"
##	"-0.33"	"0"	"0.33"	"0.514"
##	"-0.33"	"0"	"0.33"	"0.493"
##	"-0.33"	"0"	"0.33"	"0.57"
##	"-0.33"	"2"	"2.53"	"1.605"
##	"-0.33"	"0"	"0.33"	"0.587"
##	"-0.33"	"0"	"0.33"	"0.514"
##	"-0.33"	"0"	"0.33"	"0.587"
##	"-0.33"	"0"	"0.33"	"0.514"
##	"-0.33"	"0"	"0.33"	"0.533"
##	"-0.33"	"0"	"0.33"	"0.587"
##	"-0.33"	"0"	"0.33"	"0.551"
##	"-0.33"	"0"	"0.33"	"0.514"
##	"-0.33"	"0"	"0.33"	"0.514"
##	"-0.33"	"0"	"0.33"	"0.587"
##	"-0.331"	"4"	"4.73"	"2.206"
##	"-0.334"	"1"	"1.4"	"1.198"
##	"-0.334"	"1"	"1.4"	"1.198"
##	"-0.334"	"1"	"1.4"	"1.198"
##	"-0.336"	"8"	"8.95"	"2.83"
##	"-0.336"	"2"	"2.5"	"1.487"
##	"-0.336"	"7"	"7.91"	"2.712"
##	"-0.34"	"0"	"0.34"	"0.572"
##	"-0.34"	"0"	"0.34"	"0.59"
##	"-0.34"	"0"	"0.34"	"0.59"
##	"-0.34"	"0"	"0.34"	"0.536"
##	"-0.34"	"0"	"0.34"	"0.536"
##	"-0.34"	"0"	"0.34"	"0.536"
##	"-0.34"	"0"	"0.34"	"0.517"
##	"-0.34"	"0"	"0.34"	"0.623"
##	"-0.34"	"0"	"0.34"	"0.517"
##	"-0.34"	"0"	"0.34"	"0.623"
##	"-0.34"	"0"	"0.34"	"0.536"
##	"-0.34"	"0"	"0.34"	"0.517"
##	"-0.34"	"0"	"0.34"	"0.517"
##	"-0.34"	"0"	"0.34"	"0.536"
##	"-0.34"	"0"	"0.34"	"0.67"
##	"-0.34"	"0"	"0.34"	"0.555"
##	"-0.34"	"0"	"0.34"	"0.59"
##	"-0.34"	"0"	"0.34"	"0.572"
##	"-0.34"	"0"	"0.34"	"0.59"
##	"-0.342"	"3"	"3.72"	"2.104"
##	"-0.343"	"59"	"61.52"	"7.348"
##	"-0.343"	"54"	"56.31"	"6.725"
##	"-0.343"	"10"	"11.16"	"3.378"
##	"-0.345"	"24"	"25.76"	"5.101"
##	"-0.345"	"2"	"2.56"	"1.623"
##	"-0.345"	"50"	"52.22"	"6.435"
##	"-0.346"	"2"	"2.51"	"1.474"
##	"-0.346"	"2"	"2.51"	"1.474"
##	"-0.347"	"17"	"18.37"	"3.951"
##	"-0.348"	"1"	"1.47"	"1.352"
##	"-0.349"	"4"	"4.72"	"2.065"

##	"-0.349"	"1"	"1.39"	"1.118"
##	"-0.349"	"4"	"4.72"	"2.065"
##	"-0.35"	"0"	"0.35"	"0.592"
##	"-0.35"	"0"	"0.35"	"0.592"
##	"-0.35"	"0"	"0.35"	"0.557"
##	"-0.35"	"0"	"0.35"	"0.609"
##	"-0.35"	"0"	"0.35"	"0.557"
##	"-0.35"	"0"	"0.35"	"0.672"
##	"-0.35"	"0"	"0.35"	"0.52"
##	"-0.35"	"0"	"0.35"	"0.539"
##	"-0.35"	"0"	"0.35"	"0.609"
##	"-0.35"	"0"	"0.35"	"0.575"
##	"-0.35"	"1"	"1.35"	"0.968"
##	"-0.35"	"1"	"1.35"	"0.968"
##	"-0.35"	"0"	"0.35"	"0.657"
##	"-0.35"	"0"	"0.35"	"0.557"
##	"-0.35"	"0"	"0.35"	"0.672"
##	"-0.35"	"0"	"0.35"	"0.52"
##	"-0.35"	"0"	"0.35"	"0.52"
##	"-0.35"	"0"	"0.35"	"0.575"
##	"-0.352"	"2"	"2.56"	"1.591"
##	"-0.353"	"2"	"2.55"	"1.559"
##	"-0.353"	"1100"	"1110.95"	"31.02"
##	"-0.353"	"1"	"1.42"	"1.191"
##	"-0.354"	"1"	"1.46"	"1.298"
##	"-0.356"	"1"	"1.43"	"1.208"
##	"-0.357"	"1"	"1.48"	"1.344"
##	"-0.358"	"448"	"457.36"	"26.177"
##	"-0.359"	"4"	"4.72"	"2.005"
##	"-0.359"	"1"	"1.44"	"1.225"
##	"-0.36"	"16"	"17.37"	"3.81"
##	"-0.36"	"0"	"0.36"	"0.612"
##	"-0.36"	"0"	"0.36"	"0.56"
##	"-0.36"	"2"	"2.51"	"1.418"
##	"-0.36"	"0"	"0.36"	"0.542"
##	"-0.36"	"0"	"0.36"	"0.578"
##	"-0.36"	"0"	"0.36"	"0.595"
##	"-0.36"	"0"	"0.36"	"0.628"
##	"-0.36"	"0"	"0.36"	"0.612"
##	"-0.36"	"0"	"0.36"	"0.523"
##	"-0.36"	"0"	"0.36"	"0.56"
##	"-0.36"	"0"	"0.36"	"0.578"
##	"-0.36"	"4"	"4.76"	"2.109"
##	"-0.36"	"0"	"0.36"	"0.542"
##	"-0.36"	"11"	"12.4"	"3.892"
##	"-0.36"	"0"	"0.36"	"0.523"
##	"-0.36"	"0"	"0.36"	"0.56"
##	"-0.36"	"5"	"5.77"	"2.136"
##	"-0.36"	"0"	"0.36"	"0.578"
##	"-0.36"	"0"	"0.36"	"0.578"
##	"-0.36"	"11"	"12.27"	"3.53"
##	"-0.36"	"0"	"0.36"	"0.56"
##	"-0.36"	"0"	"0.36"	"0.578"
##	"-0.36"	"0"	"0.36"	"0.578"

##	"-0.36"	"0"	"0.36"	"0.56"
##	"-0.362"	"15"	"16.34"	"3.704"
##	"-0.365"	"167"	"171.6"	"12.604"
##	"-0.366"	"1"	"1.5"	"1.367"
##	"-0.367"	"1"	"1.44"	"1.2"
##	"-0.367"	"1"	"1.44"	"1.2"
##	"-0.367"	"2"	"2.54"	"1.473"
##	"-0.368"	"64"	"67.29"	"8.929"
##	"-0.37"	"0"	"0.37"	"0.58"
##	"-0.37"	"0"	"0.37"	"0.63"
##	"-0.37"	"0"	"0.37"	"0.597"
##	"-0.37"	"0"	"0.37"	"0.562"
##	"-0.37"	"0"	"0.37"	"0.597"
##	"-0.37"	"0"	"0.37"	"0.597"
##	"-0.37"	"0"	"0.37"	"0.614"
##	"-0.37"	"0"	"0.37"	"0.614"
##	"-0.37"	"15"	"16.54"	"4.159"
##	"-0.37"	"0"	"0.37"	"0.58"
##	"-0.37"	"0"	"0.37"	"0.58"
##	"-0.37"	"0"	"0.37"	"0.597"
##	"-0.37"	"0"	"0.37"	"0.63"
##	"-0.37"	"0"	"0.37"	"0.63"
##	"-0.37"	"0"	"0.37"	"0.58"
##	"-0.37"	"0"	"0.37"	"0.677"
##	"-0.37"	"0"	"0.37"	"0.614"
##	"-0.37"	"0"	"0.37"	"0.614"
##	"-0.37"	"0"	"0.37"	"0.63"
##	"-0.372"	"349"	"356.39"	"19.858"
##	"-0.374"	"47"	"49.71"	"7.255"
##	"-0.375"	"1"	"1.43"	"1.148"
##	"-0.375"	"9"	"10.13"	"3.011"
##	"-0.375"	"10"	"11.25"	"3.334"
##	"-0.375"	"1"	"1.42"	"1.121"
##	"-0.376"	"30"	"32.01"	"5.342"
##	"-0.378"	"9"	"10.14"	"3.019"
##	"-0.379"	"2"	"2.56"	"1.479"
##	"-0.379"	"2"	"2.56"	"1.479"
##	"-0.379"	"31"	"33.3"	"6.074"
##	"-0.38"	"0"	"0.38"	"0.599"
##	"-0.38"	"0"	"0.38"	"0.546"
##	"-0.38"	"0"	"0.38"	"0.599"
##	"-0.38"	"0"	"0.38"	"0.663"
##	"-0.38"	"0"	"0.38"	"0.599"
##	"-0.38"	"0"	"0.38"	"0.663"
##	"-0.38"	"0"	"0.38"	"0.663"
##	"-0.38"	"0"	"0.38"	"0.582"
##	"-0.38"	"0"	"0.38"	"0.599"
##	"-0.38"	"44"	"46.06"	"5.419"
##	"-0.38"	"0"	"0.38"	"0.736"
##	"-0.38"	"0"	"0.38"	"0.678"
##	"-0.38"	"0"	"0.38"	"0.708"
##	"-0.38"	"0"	"0.38"	"0.708"
##	"-0.38"	"0"	"0.38"	"0.678"
##	"-0.38"	"1"	"1.45"	"1.184"

##	"-0.38"	"0"	"0.38"	"0.736"
##	"-0.38"	"0"	"0.38"	"0.528"
##	"-0.38"	"0"	"0.38"	"0.599"
##	"-0.383"	"4"	"4.91"	"2.375"
##	"-0.385"	"16"	"17.59"	"4.129"
##	"-0.386"	"4"	"4.85"	"2.204"
##	"-0.386"	"1"	"1.47"	"1.218"
##	"-0.386"	"9"	"10.12"	"2.9"
##	"-0.387"	"10"	"11.21"	"3.125"
##	"-0.387"	"19"	"20.74"	"4.498"
##	"-0.388"	"71"	"74.29"	"8.471"
##	"-0.39"	"0"	"0.39"	"0.601"
##	"-0.39"	"0"	"0.39"	"0.567"
##	"-0.39"	"0"	"0.39"	"0.709"
##	"-0.39"	"0"	"0.39"	"0.709"
##	"-0.39"	"0"	"0.39"	"0.584"
##	"-0.39"	"0"	"0.39"	"0.584"
##	"-0.39"	"0"	"0.39"	"0.65"
##	"-0.39"	"0"	"0.39"	"0.68"
##	"-0.39"	"0"	"0.39"	"0.65"
##	"-0.39"	"0"	"0.39"	"0.567"
##	"-0.39"	"0"	"0.39"	"0.618"
##	"-0.39"	"0"	"0.39"	"0.584"
##	"-0.39"	"0"	"0.39"	"0.618"
##	"-0.39"	"0"	"0.39"	"0.601"
##	"-0.39"	"0"	"0.39"	"0.618"
##	"-0.39"	"0"	"0.39"	"0.695"
##	"-0.39"	"0"	"0.39"	"0.68"
##	"-0.39"	"0"	"0.39"	"0.618"
##	"-0.39"	"0"	"0.39"	"0.65"
##	"-0.39"	"0"	"0.39"	"0.618"
##	"-0.391"	"6"	"7.11"	"2.842"
##	"-0.391"	"6"	"7.04"	"2.659"
##	"-0.392"	"27"	"29.03"	"5.184"
##	"-0.393"	"7"	"8.13"	"2.877"
##	"-0.393"	"10"	"11.16"	"2.95"
##	"-0.394"	"2"	"2.61"	"1.55"
##	"-0.394"	"9"	"10.19"	"3.024"
##	"-0.395"	"18"	"19.66"	"4.207"
##	"-0.396"	"4"	"4.91"	"2.297"
##	"-0.396"	"13"	"14.44"	"3.636"
##	"-0.398"	"10"	"11.24"	"3.114"
##	"-0.398"	"2"	"2.66"	"1.659"
##	"-0.399"	"6"	"7.07"	"2.679"
##	"-0.4"	"0"	"0.4"	"0.636"
##	"-0.4"	"0"	"0.4"	"0.62"
##	"-0.4"	"0"	"0.4"	"0.62"
##	"-0.4"	"0"	"0.4"	"0.586"
##	"-0.4"	"0"	"0.4"	"0.569"
##	"-0.4"	"0"	"0.4"	"0.636"
##	"-0.4"	"0"	"0.4"	"0.636"
##	"-0.4"	"0"	"0.4"	"0.667"
##	"-0.4"	"0"	"0.4"	"0.586"
##	"-0.4"	"0"	"0.4"	"0.62"

##	"-0.4"	"0"	"0.4"	"0.636"
##	"-0.4"	"0"	"0.4"	"0.586"
##	"-0.4"	"0"	"0.4"	"0.696"
##	"-0.4"	"0"	"0.4"	"0.586"
##	"-0.4"	"0"	"0.4"	"0.62"
##	"-0.401"	"22"	"23.81"	"4.512"
##	"-0.401"	"79"	"82.57"	"8.913"
##	"-0.402"	"2"	"2.58"	"1.444"
##	"-0.402"	"1"	"1.58"	"1.444"
##	"-0.405"	"2"	"2.63"	"1.555"
##	"-0.405"	"2"	"2.63"	"1.555"
##	"-0.405"	"2"	"2.63"	"1.555"
##	"-0.406"	"13"	"14.66"	"4.09"
##	"-0.409"	"2"	"2.71"	"1.737"
##	"-0.41"	"0"	"0.41"	"0.621"
##	"-0.41"	"0"	"0.41"	"0.668"
##	"-0.41"	"0"	"0.41"	"0.637"
##	"-0.41"	"0"	"0.41"	"0.653"
##	"-0.41"	"0"	"0.41"	"0.605"
##	"-0.41"	"0"	"0.41"	"0.552"
##	"-0.41"	"0"	"0.41"	"0.552"
##	"-0.41"	"0"	"0.41"	"0.683"
##	"-0.41"	"0"	"0.41"	"0.653"
##	"-0.41"	"0"	"0.41"	"0.588"
##	"-0.41"	"0"	"0.41"	"0.712"
##	"-0.41"	"0"	"0.41"	"0.552"
##	"-0.41"	"0"	"0.41"	"0.653"
##	"-0.41"	"0"	"0.41"	"0.621"
##	"-0.41"	"0"	"0.41"	"0.653"
##	"-0.41"	"0"	"0.41"	"0.683"
##	"-0.41"	"2"	"2.74"	"1.807"
##	"-0.41"	"0"	"0.41"	"0.588"
##	"-0.41"	"0"	"0.41"	"0.621"
##	"-0.41"	"0"	"0.41"	"0.552"
##	"-0.41"	"0"	"0.41"	"0.552"
##	"-0.41"	"0"	"0.41"	"0.552"
##	"-0.41"	"0"	"0.41"	"0.57"
##	"-0.41"	"0"	"0.41"	"0.653"
##	"-0.41"	"0"	"0.41"	"0.621"
##	"-0.41"	"0"	"0.41"	"0.653"
##	"-0.41"	"0"	"0.41"	"0.653"
##	"-0.41"	"0"	"0.41"	"0.621"
##	"-0.41"	"0"	"0.41"	"0.552"
##	"-0.41"	"0"	"0.41"	"0.552"
##	"-0.413"	"67"	"70.05"	"7.389"
##	"-0.414"	"3"	"3.83"	"2.005"
##	"-0.416"	"1"	"1.51"	"1.227"
##	"-0.416"	"1"	"1.5"	"1.202"
##	"-0.417"	"213"	"219.21"	"14.909"
##	"-0.417"	"5"	"6"	"2.395"
##	"-0.417"	"5"	"6"	"2.395"
##	"-0.418"	"4"	"4.84"	"2.009"
##	"-0.418"	"2"	"2.68"	"1.626"
##	"-0.418"	"1"	"1.47"	"1.123"

##	"-0.419"	"113"	"117.92"	"11.739"
##	"-0.419"	"24"	"26.15"	"5.125"
##	"-0.42"	"44"	"46.65"	"6.314"
##	"-0.42"	"0"	"0.42"	"0.572"
##	"-0.42"	"0"	"0.42"	"0.572"
##	"-0.42"	"0"	"0.42"	"0.606"
##	"-0.42"	"0"	"0.42"	"0.589"
##	"-0.42"	"0"	"0.42"	"0.606"
##	"-0.42"	"0"	"0.42"	"0.572"
##	"-0.42"	"0"	"0.42"	"0.589"
##	"-0.42"	"0"	"0.42"	"0.572"
##	"-0.42"	"0"	"0.42"	"0.589"
##	"-0.42"	"0"	"0.42"	"0.638"
##	"-0.42"	"0"	"0.42"	"0.654"
##	"-0.42"	"0"	"0.42"	"0.554"
##	"-0.42"	"0"	"0.42"	"0.572"
##	"-0.42"	"0"	"0.42"	"0.622"
##	"-0.421"	"17"	"18.87"	"4.446"
##	"-0.422"	"27"	"29.24"	"5.303"
##	"-0.423"	"1"	"1.58"	"1.372"
##	"-0.424"	"1"	"1.44"	"1.038"
##	"-0.424"	"12"	"13.35"	"3.186"
##	"-0.425"	"2"	"2.73"	"1.717"
##	"-0.425"	"15"	"16.82"	"4.281"
##	"-0.426"	"2"	"2.74"	"1.739"
##	"-0.426"	"4"	"4.91"	"2.137"
##	"-0.429"	"1"	"1.57"	"1.328"
##	"-0.43"	"0"	"0.43"	"0.64"
##	"-0.43"	"0"	"0.43"	"0.64"
##	"-0.43"	"0"	"0.43"	"0.685"
##	"-0.43"	"0"	"0.43"	"0.607"
##	"-0.43"	"0"	"0.43"	"0.685"
##	"-0.43"	"0"	"0.43"	"0.685"
##	"-0.43"	"0"	"0.43"	"0.624"
##	"-0.43"	"0"	"0.43"	"0.671"
##	"-0.43"	"0"	"0.43"	"0.573"
##	"-0.43"	"0"	"0.43"	"0.728"
##	"-0.43"	"0"	"0.43"	"0.728"
##	"-0.43"	"0"	"0.43"	"0.64"
##	"-0.43"	"0"	"0.43"	"0.671"
##	"-0.43"	"0"	"0.43"	"0.624"
##	"-0.43"	"0"	"0.43"	"0.671"
##	"-0.43"	"0"	"0.43"	"0.671"
##	"-0.43"	"0"	"0.43"	"0.671"
##	"-0.43"	"0"	"0.43"	"0.671"
##	"-0.43"	"0"	"0.43"	"0.64"
##	"-0.43"	"0"	"0.43"	"0.685"
##	"-0.43"	"0"	"0.43"	"0.671"
##	"-0.43"	"0"	"0.43"	"0.655"
##	"-0.43"	"0"	"0.43"	"0.655"
##	"-0.43"	"0"	"0.43"	"0.671"
##	"-0.43"	"0"	"0.43"	"0.671"
##	"-0.43"	"0"	"0.43"	"0.671"
##	"-0.43"	"0"	"0.43"	"0.671"
##	"-0.43"	"0"	"0.43"	"0.685"

##	"-0.43"	"0"	"0.43"	"0.671"
##	"-0.43"	"0"	"0.43"	"0.685"
##	"-0.43"	"0"	"0.43"	"0.64"
##	"-0.43"	"0"	"0.43"	"0.685"
##	"-0.43"	"0"	"0.43"	"0.685"
##	"-0.43"	"0"	"0.43"	"0.685"
##	"-0.43"	"0"	"0.43"	"0.685"
##	"-0.43"	"0"	"0.43"	"0.59"
##	"-0.43"	"0"	"0.43"	"0.655"
##	"-0.433"	"45"	"47.9"	"6.704"
##	"-0.435"	"11"	"12.57"	"3.61"
##	"-0.436"	"2"	"2.71"	"1.629"
##	"-0.436"	"2"	"2.75"	"1.72"
##	"-0.436"	"2"	"2.71"	"1.629"
##	"-0.436"	"5"	"6.02"	"2.34"
##	"-0.437"	"1"	"1.55"	"1.258"
##	"-0.437"	"1"	"1.55"	"1.258"
##	"-0.437"	"1"	"1.55"	"1.258"
##	"-0.437"	"1"	"1.55"	"1.258"
##	"-0.437"	"12"	"13.57"	"3.596"
##	"-0.438"	"2"	"2.66"	"1.506"
##	"-0.44"	"0"	"0.44"	"0.701"
##	"-0.44"	"0"	"0.44"	"0.641"
##	"-0.44"	"0"	"0.44"	"0.671"
##	"-0.44"	"0"	"0.44"	"0.592"
##	"-0.44"	"0"	"0.44"	"0.592"
##	"-0.44"	"0"	"0.44"	"0.592"
##	"-0.44"	"1"	"1.55"	"1.25"
##	"-0.44"	"0"	"0.44"	"0.592"
##	"-0.44"	"0"	"0.44"	"0.671"
##	"-0.44"	"3"	"3.88"	"2.001"
##	"-0.44"	"0"	"0.44"	"0.656"
##	"-0.44"	"0"	"0.44"	"0.671"
##	"-0.44"	"0"	"0.44"	"0.686"
##	"-0.44"	"0"	"0.44"	"0.641"
##	"-0.44"	"0"	"0.44"	"0.715"
##	"-0.44"	"0"	"0.44"	"0.592"
##	"-0.441"	"51"	"53.84"	"6.44"
##	"-0.442"	"6"	"7.24"	"2.804"
##	"-0.442"	"6"	"7.24"	"2.804"
##	"-0.443"	"15"	"16.89"	"4.264"
##	"-0.443"	"1"	"1.54"	"1.218"
##	"-0.447"	"2"	"2.74"	"1.655"
##	"-0.45"	"0"	"0.45"	"0.575"
##	"-0.45"	"0"	"0.45"	"0.716"
##	"-0.45"	"0"	"0.45"	"0.592"
##	"-0.45"	"0"	"0.45"	"0.702"
##	"-0.45"	"0"	"0.45"	"0.642"
##	"-0.45"	"0"	"0.45"	"0.642"
##	"-0.45"	"0"	"0.45"	"0.687"
##	"-0.45"	"0"	"0.45"	"0.687"
##	"-0.45"	"0"	"0.45"	"0.642"
##	"-0.45"	"0"	"0.45"	"0.657"
##	"-0.45"	"0"	"0.45"	"0.702"

##	"-0.45"	"0"	"0.45"	"0.687"
##	"-0.45"	"0"	"0.45"	"0.592"
##	"-0.451"	"7"	"8.25"	"2.772"
##	"-0.454"	"6"	"7.36"	"2.993"
##	"-0.455"	"1"	"1.59"	"1.296"
##	"-0.456"	"32"	"34.61"	"5.724"
##	"-0.456"	"22"	"24.22"	"4.865"
##	"-0.457"	"219"	"226.26"	"15.888"
##	"-0.458"	"3"	"3.89"	"1.943"
##	"-0.46"	"0"	"0.46"	"0.673"
##	"-0.46"	"0"	"0.46"	"0.593"
##	"-0.46"	"0"	"0.46"	"0.731"
##	"-0.46"	"0"	"0.46"	"0.673"
##	"-0.46"	"0"	"0.46"	"0.61"
##	"-0.46"	"0"	"0.46"	"0.688"
##	"-0.46"	"0"	"0.46"	"0.61"
##	"-0.46"	"0"	"0.46"	"0.593"
##	"-0.46"	"0"	"0.46"	"0.658"
##	"-0.46"	"0"	"0.46"	"0.658"
##	"-0.46"	"0"	"0.46"	"0.61"
##	"-0.46"	"0"	"0.46"	"0.593"
##	"-0.46"	"0"	"0.46"	"0.688"
##	"-0.46"	"0"	"0.46"	"0.673"
##	"-0.46"	"0"	"0.46"	"0.688"
##	"-0.46"	"0"	"0.46"	"0.673"
##	"-0.46"	"0"	"0.46"	"0.731"
##	"-0.46"	"0"	"0.46"	"0.658"
##	"-0.46"	"0"	"0.46"	"0.658"
##	"-0.46"	"0"	"0.46"	"0.673"
##	"-0.46"	"0"	"0.46"	"0.593"
##	"-0.46"	"0"	"0.46"	"0.688"
##	"-0.46"	"0"	"0.46"	"0.658"
##	"-0.46"	"0"	"0.46"	"0.758"
##	"-0.461"	"13"	"14.55"	"3.365"
##	"-0.462"	"122"	"127.16"	"11.171"
##	"-0.463"	"30"	"32.81"	"6.065"
##	"-0.463"	"9"	"10.3"	"2.805"
##	"-0.463"	"3"	"3.82"	"1.772"
##	"-0.464"	"2"	"2.8"	"1.723"
##	"-0.464"	"2"	"2.8"	"1.723"
##	"-0.464"	"2"	"2.8"	"1.723"
##	"-0.464"	"2"	"2.8"	"1.723"
##	"-0.464"	"2"	"2.8"	"1.723"
##	"-0.467"	"10"	"11.59"	"3.403"
##	"-0.467"	"10"	"11.59"	"3.403"
##	"-0.467"	"10"	"11.59"	"3.403"
##	"-0.467"	"2"	"2.68"	"1.456"
##	"-0.467"	"4"	"5.11"	"2.378"
##	"-0.467"	"10"	"11.59"	"3.403"
##	"-0.468"	"1"	"1.64"	"1.367"
##	"-0.469"	"3"	"3.79"	"1.684"
##	"-0.469"	"1"	"1.66"	"1.409"
##	"-0.47"	"0"	"0.47"	"0.688"
##	"-0.47"	"0"	"0.47"	"0.611"

##	"-0.47"	"0"	"0.47"	"0.703"
##	"-0.47"	"0"	"0.47"	"0.658"
##	"-0.47"	"0"	"0.47"	"0.658"
##	"-0.47"	"0"	"0.47"	"0.731"
##	"-0.47"	"0"	"0.47"	"0.703"
##	"-0.47"	"0"	"0.47"	"0.658"
##	"-0.47"	"0"	"0.47"	"0.674"
##	"-0.47"	"0"	"0.47"	"0.674"
##	"-0.47"	"0"	"0.47"	"0.643"
##	"-0.47"	"0"	"0.47"	"0.674"
##	"-0.47"	"0"	"0.47"	"0.611"
##	"-0.47"	"0"	"0.47"	"0.674"
##	"-0.47"	"0"	"0.47"	"0.643"
##	"-0.47"	"0"	"0.47"	"0.688"
##	"-0.47"	"0"	"0.47"	"0.717"
##	"-0.471"	"35"	"37.71"	"5.758"
##	"-0.473"	"4"	"4.99"	"2.091"
##	"-0.474"	"1"	"1.77"	"1.626"
##	"-0.475"	"1"	"1.57"	"1.2"
##	"-0.476"	"99"	"103.54"	"9.548"
##	"-0.477"	"2"	"2.84"	"1.762"
##	"-0.477"	"1"	"1.54"	"1.132"
##	"-0.479"	"1"	"1.55"	"1.149"
##	"-0.479"	"9"	"10.49"	"3.109"
##	"-0.48"	"0"	"0.48"	"0.627"
##	"-0.48"	"0"	"0.48"	"0.745"
##	"-0.48"	"0"	"0.48"	"0.745"
##	"-0.48"	"0"	"0.48"	"0.703"
##	"-0.48"	"0"	"0.48"	"0.674"
##	"-0.48"	"0"	"0.48"	"0.731"
##	"-0.48"	"0"	"0.48"	"0.759"
##	"-0.48"	"58"	"61.54"	"7.372"
##	"-0.48"	"0"	"0.48"	"0.745"
##	"-0.48"	"0"	"0.48"	"0.703"
##	"-0.48"	"0"	"0.48"	"0.659"
##	"-0.48"	"0"	"0.48"	"0.689"
##	"-0.48"	"0"	"0.48"	"0.689"
##	"-0.48"	"0"	"0.48"	"0.689"
##	"-0.48"	"0"	"0.48"	"0.745"
##	"-0.48"	"0"	"0.48"	"0.627"
##	"-0.48"	"0"	"0.48"	"0.643"
##	"-0.48"	"0"	"0.48"	"0.689"
##	"-0.48"	"0"	"0.48"	"0.689"
##	"-0.484"	"1"	"1.58"	"1.199"
##	"-0.486"	"1"	"1.68"	"1.399"
##	"-0.486"	"2"	"2.73"	"1.503"
##	"-0.487"	"6"	"7.45"	"2.976"
##	"-0.489"	"1"	"1.61"	"1.246"
##	"-0.489"	"3"	"3.94"	"1.922"
##	"-0.49"	"0"	"0.49"	"0.643"
##	"-0.49"	"0"	"0.49"	"0.689"
##	"-0.49"	"0"	"0.49"	"0.674"
##	"-0.49"	"0"	"0.49"	"0.643"
##	"-0.49"	"0"	"0.49"	"0.718"

##	"-0.49"	"0"	"0.49"	"0.674"
##	"-0.49"	"2"	"2.96"	"1.959"
##	"-0.49"	"0"	"0.49"	"0.674"
##	"-0.493"	"11"	"12.65"	"3.347"
##	"-0.495"	"1"	"1.56"	"1.131"
##	"-0.496"	"1"	"1.59"	"1.19"
##	"-0.496"	"1"	"1.69"	"1.39"
##	"-0.497"	"5"	"6.16"	"2.334"
##	"-0.499"	"1"	"1.59"	"1.181"
##	"-0.499"	"299"	"310.49"	"23.042"
##	"-0.499"	"1"	"1.59"	"1.181"
##	"-0.5"	"0"	"0.5"	"0.659"
##	"-0.5"	"0"	"0.5"	"0.835"
##	"-0.5"	"0"	"0.5"	"0.785"
##	"-0.5"	"0"	"0.5"	"0.689"
##	"-0.5"	"0"	"0.5"	"0.745"
##	"-0.5"	"0"	"0.5"	"0.674"
##	"-0.5"	"0"	"0.5"	"0.689"
##	"-0.502"	"2"	"2.81"	"1.612"
##	"-0.502"	"1"	"1.67"	"1.334"
##	"-0.503"	"2"	"2.94"	"1.869"
##	"-0.504"	"1"	"1.57"	"1.13"
##	"-0.505"	"2"	"2.89"	"1.763"
##	"-0.505"	"2"	"2.89"	"1.763"
##	"-0.505"	"6"	"7.37"	"2.714"
##	"-0.505"	"43"	"45.97"	"5.885"
##	"-0.505"	"3"	"3.87"	"1.721"
##	"-0.506"	"35"	"38.04"	"6.012"
##	"-0.506"	"10"	"11.62"	"3.2"
##	"-0.506"	"2"	"2.93"	"1.838"
##	"-0.509"	"11"	"12.83"	"3.593"
##	"-0.509"	"15"	"16.99"	"3.909"
##	"-0.509"	"22"	"24.3"	"4.518"
##	"-0.51"	"0"	"0.51"	"0.718"
##	"-0.51"	"0"	"0.51"	"0.628"
##	"-0.51"	"0"	"0.51"	"0.718"
##	"-0.51"	"0"	"0.51"	"0.628"
##	"-0.51"	"0"	"0.51"	"0.659"
##	"-0.51"	"0"	"0.51"	"0.759"
##	"-0.51"	"0"	"0.51"	"0.732"
##	"-0.51"	"0"	"0.51"	"0.732"
##	"-0.51"	"0"	"0.51"	"0.745"
##	"-0.51"	"1"	"1.69"	"1.354"
##	"-0.51"	"0"	"0.51"	"0.718"
##	"-0.51"	"0"	"0.51"	"0.732"
##	"-0.51"	"1"	"1.61"	"1.197"
##	"-0.51"	"0"	"0.51"	"0.718"
##	"-0.51"	"0"	"0.51"	"0.718"
##	"-0.511"	"2"	"2.91"	"1.781"
##	"-0.511"	"4"	"5.06"	"2.073"
##	"-0.512"	"3"	"4.17"	"2.283"
##	"-0.513"	"6"	"7.34"	"2.61"
##	"-0.513"	"6"	"7.21"	"2.358"
##	"-0.513"	"83"	"87.5"	"8.774"

##	"-0.513"	"4"	"5.15"	"2.24"
##	"-0.513"	"1"	"1.69"	"1.346"
##	"-0.513"	"2"	"2.79"	"1.539"
##	"-0.513"	"10"	"11.76"	"3.429"
##	"-0.514"	"2"	"2.83"	"1.615"
##	"-0.517"	"127"	"132.52"	"10.68"
##	"-0.517"	"157"	"163.42"	"12.429"
##	"-0.518"	"1"	"1.62"	"1.196"
##	"-0.518"	"3"	"4.21"	"2.337"
##	"-0.519"	"11"	"12.68"	"3.238"
##	"-0.52"	"0"	"0.52"	"0.717"
##	"-0.52"	"1"	"1.67"	"1.288"
##	"-0.52"	"0"	"0.52"	"0.674"
##	"-0.52"	"0"	"0.52"	"0.659"
##	"-0.52"	"0"	"0.52"	"0.717"
##	"-0.52"	"0"	"0.52"	"0.759"
##	"-0.52"	"3"	"3.9"	"1.732"
##	"-0.52"	"0"	"0.52"	"0.643"
##	"-0.52"	"1"	"1.6"	"1.155"
##	"-0.52"	"0"	"0.52"	"0.717"
##	"-0.52"	"0"	"0.52"	"0.659"
##	"-0.52"	"0"	"0.52"	"0.627"
##	"-0.52"	"0"	"0.52"	"0.772"
##	"-0.52"	"0"	"0.52"	"0.689"
##	"-0.52"	"1"	"1.67"	"1.288"
##	"-0.52"	"0"	"0.52"	"0.703"
##	"-0.52"	"0"	"0.52"	"0.627"
##	"-0.52"	"0"	"0.52"	"0.627"
##	"-0.52"	"0"	"0.52"	"0.627"
##	"-0.521"	"1"	"1.61"	"1.171"
##	"-0.525"	"1"	"1.64"	"1.219"
##	"-0.525"	"17"	"19.06"	"3.92"
##	"-0.525"	"3"	"4.04"	"1.979"
##	"-0.526"	"1"	"1.87"	"1.655"
##	"-0.526"	"12"	"13.78"	"3.386"
##	"-0.527"	"1"	"1.59"	"1.12"
##	"-0.528"	"27"	"29.73"	"5.173"
##	"-0.529"	"2"	"2.84"	"1.587"
##	"-0.529"	"2"	"2.84"	"1.587"
##	"-0.53"	"0"	"0.53"	"0.771"
##	"-0.53"	"0"	"0.53"	"0.703"
##	"-0.53"	"0"	"0.53"	"0.643"
##	"-0.53"	"0"	"0.53"	"0.658"
##	"-0.53"	"0"	"0.53"	"0.717"
##	"-0.53"	"0"	"0.53"	"0.643"
##	"-0.531"	"6"	"7.25"	"2.354"
##	"-0.532"	"16"	"18.31"	"4.341"
##	"-0.534"	"7"	"8.51"	"2.83"
##	"-0.534"	"3"	"4.09"	"2.04"
##	"-0.534"	"9"	"10.55"	"2.904"
##	"-0.535"	"8"	"9.49"	"2.787"
##	"-0.535"	"257"	"266.56"	"17.859"
##	"-0.536"	"271"	"279.45"	"15.763"
##	"-0.537"	"3"	"4.12"	"2.085"

##	"-0.539"	"1"	"1.63"	"1.169"
##	"-0.54"	"0"	"0.54"	"0.717"
##	"-0.54"	"0"	"0.54"	"0.797"
##	"-0.54"	"0"	"0.54"	"0.797"
##	"-0.54"	"0"	"0.54"	"0.731"
##	"-0.54"	"0"	"0.54"	"0.758"
##	"-0.54"	"0"	"0.54"	"0.717"
##	"-0.54"	"0"	"0.54"	"0.731"
##	"-0.54"	"0"	"0.54"	"0.784"
##	"-0.54"	"0"	"0.54"	"0.673"
##	"-0.54"	"1"	"1.76"	"1.408"
##	"-0.54"	"0"	"0.54"	"0.642"
##	"-0.54"	"0"	"0.54"	"0.784"
##	"-0.54"	"0"	"0.54"	"0.702"
##	"-0.54"	"1"	"1.76"	"1.408"
##	"-0.541"	"1"	"1.61"	"1.127"
##	"-0.542"	"1"	"1.62"	"1.144"
##	"-0.543"	"20"	"22.11"	"3.887"
##	"-0.544"	"151"	"157.55"	"12.031"
##	"-0.549"	"1"	"1.68"	"1.238"
##	"-0.55"	"0"	"0.55"	"0.77"
##	"-0.55"	"0"	"0.55"	"0.77"
##	"-0.55"	"37"	"40.11"	"5.658"
##	"-0.55"	"0"	"0.55"	"0.783"
##	"-0.55"	"0"	"0.55"	"0.702"
##	"-0.55"	"0"	"0.55"	"0.716"
##	"-0.55"	"0"	"0.55"	"0.702"
##	"-0.55"	"0"	"0.55"	"0.783"
##	"-0.55"	"0"	"0.55"	"0.702"
##	"-0.55"	"0"	"0.55"	"0.716"
##	"-0.55"	"0"	"0.55"	"0.757"
##	"-0.55"	"0"	"0.55"	"0.73"
##	"-0.55"	"0"	"0.55"	"0.77"
##	"-0.55"	"0"	"0.55"	"0.702"
##	"-0.55"	"0"	"0.55"	"0.857"
##	"-0.55"	"0"	"0.55"	"0.716"
##	"-0.55"	"0"	"0.55"	"0.73"
##	"-0.551"	"47"	"50.56"	"6.456"
##	"-0.551"	"1"	"1.76"	"1.379"
##	"-0.551"	"1"	"1.76"	"1.379"
##	"-0.552"	"2"	"2.81"	"1.468"
##	"-0.552"	"84"	"88.89"	"8.853"
##	"-0.553"	"2"	"2.97"	"1.755"
##	"-0.553"	"2"	"2.97"	"1.755"
##	"-0.553"	"2"	"2.97"	"1.755"
##	"-0.554"	"4"	"5.2"	"2.165"
##	"-0.555"	"3"	"4.1"	"1.982"
##	"-0.557"	"2"	"2.99"	"1.778"
##	"-0.559"	"1"	"1.77"	"1.377"
##	"-0.559"	"5"	"6.27"	"2.273"
##	"-0.56"	"0"	"0.56"	"0.77"
##	"-0.56"	"0"	"0.56"	"0.833"
##	"-0.56"	"0"	"0.56"	"0.686"
##	"-0.56"	"0"	"0.56"	"0.686"

##	"-0.56"	"0"	"0.56"	"0.743"
##	"-0.56"	"0"	"0.56"	"0.756"
##	"-0.56"	"0"	"0.56"	"0.77"
##	"-0.56"	"0"	"0.56"	"0.743"
##	"-0.56"	"0"	"0.56"	"0.671"
##	"-0.56"	"0"	"0.56"	"0.686"
##	"-0.56"	"0"	"0.56"	"0.671"
##	"-0.56"	"0"	"0.56"	"0.701"
##	"-0.56"	"0"	"0.56"	"0.686"
##	"-0.56"	"0"	"0.56"	"0.671"
##	"-0.56"	"0"	"0.56"	"0.686"
##	"-0.56"	"0"	"0.56"	"0.671"
##	"-0.56"	"0"	"0.56"	"0.729"
##	"-0.56"	"0"	"0.56"	"0.715"
##	"-0.56"	"0"	"0.56"	"0.77"
##	"-0.56"	"0"	"0.56"	"0.743"
##	"-0.56"	"0"	"0.56"	"0.701"
##	"-0.56"	"0"	"0.56"	"0.729"
##	"-0.56"	"0"	"0.56"	"0.77"
##	"-0.56"	"0"	"0.56"	"0.729"
##	"-0.56"	"0"	"0.56"	"0.715"
##	"-0.56"	"0"	"0.56"	"0.743"
##	"-0.56"	"0"	"0.56"	"0.77"
##	"-0.56"	"0"	"0.56"	"0.77"
##	"-0.561"	"8"	"9.76"	"3.137"
##	"-0.561"	"1"	"1.75"	"1.336"
##	"-0.562"	"58"	"61.88"	"6.904"
##	"-0.562"	"1"	"1.84"	"1.496"
##	"-0.562"	"11"	"13.15"	"3.825"
##	"-0.563"	"2"	"2.79"	"1.402"
##	"-0.563"	"7"	"8.45"	"2.576"
##	"-0.564"	"3"	"4.18"	"2.091"
##	"-0.564"	"12"	"13.95"	"3.456"
##	"-0.567"	"102"	"108.34"	"11.189"
##	"-0.567"	"1"	"1.82"	"1.445"
##	"-0.569"	"7"	"8.64"	"2.883"
##	"-0.569"	"1"	"1.74"	"1.3"
##	"-0.569"	"1"	"1.74"	"1.3"
##	"-0.57"	"0"	"0.57"	"0.655"
##	"-0.57"	"0"	"0.57"	"0.671"
##	"-0.57"	"0"	"0.57"	"0.82"
##	"-0.57"	"0"	"0.57"	"0.7"
##	"-0.57"	"0"	"0.57"	"0.714"
##	"-0.57"	"0"	"0.57"	"0.671"
##	"-0.57"	"1"	"1.91"	"1.596"
##	"-0.57"	"0"	"0.57"	"0.742"
##	"-0.57"	"0"	"0.57"	"0.82"
##	"-0.57"	"0"	"0.57"	"0.671"
##	"-0.57"	"0"	"0.57"	"0.671"
##	"-0.57"	"0"	"0.57"	"0.769"
##	"-0.57"	"0"	"0.57"	"0.671"
##	"-0.57"	"0"	"0.57"	"0.756"
##	"-0.57"	"0"	"0.57"	"0.728"
##	"-0.57"	"0"	"0.57"	"0.728"

##	"-0.57"	"0"	"0.57"	"0.742"
##	"-0.57"	"0"	"0.57"	"0.728"
##	"-0.57"	"0"	"0.57"	"0.7"
##	"-0.57"	"0"	"0.57"	"0.7"
##	"-0.572"	"5"	"6.41"	"2.466"
##	"-0.573"	"12"	"14.06"	"3.598"
##	"-0.574"	"1"	"1.64"	"1.115"
##	"-0.576"	"5"	"6.45"	"2.516"
##	"-0.576"	"119"	"125.81"	"11.819"
##	"-0.577"	"4"	"5.23"	"2.131"
##	"-0.577"	"4"	"5.37"	"2.373"
##	"-0.578"	"10"	"11.88"	"3.254"
##	"-0.578"	"1"	"1.7"	"1.21"
##	"-0.579"	"10"	"12.1"	"3.625"
##	"-0.58"	"0"	"0.58"	"0.768"
##	"-0.58"	"0"	"0.58"	"0.794"
##	"-0.58"	"0"	"0.58"	"0.684"
##	"-0.58"	"0"	"0.58"	"0.901"
##	"-0.58"	"0"	"0.58"	"0.768"
##	"-0.58"	"0"	"0.58"	"0.768"
##	"-0.58"	"0"	"0.58"	"0.768"
##	"-0.58"	"78"	"82.95"	"8.534"
##	"-0.58"	"0"	"0.58"	"0.768"
##	"-0.58"	"0"	"0.58"	"0.794"
##	"-0.58"	"0"	"0.58"	"0.855"
##	"-0.58"	"0"	"0.58"	"0.806"
##	"-0.58"	"0"	"0.58"	"0.713"
##	"-0.58"	"0"	"0.58"	"0.878"
##	"-0.58"	"0"	"0.58"	"0.713"
##	"-0.58"	"0"	"0.58"	"0.831"
##	"-0.58"	"0"	"0.58"	"0.768"
##	"-0.58"	"0"	"0.58"	"0.831"
##	"-0.58"	"0"	"0.58"	"0.669"
##	"-0.581"	"13"	"15.58"	"4.439"
##	"-0.582"	"1"	"1.73"	"1.254"
##	"-0.583"	"1"	"1.84"	"1.441"
##	"-0.584"	"295"	"308.09"	"22.414"
##	"-0.584"	"2"	"2.8"	"1.371"
##	"-0.585"	"7"	"8.63"	"2.784"
##	"-0.585"	"36"	"38.95"	"5.046"
##	"-0.587"	"95"	"100.44"	"9.266"
##	"-0.59"	"14"	"16.47"	"4.184"
##	"-0.59"	"0"	"0.59"	"0.753"
##	"-0.59"	"2"	"3.09"	"1.848"
##	"-0.59"	"0"	"0.59"	"0.712"
##	"-0.59"	"0"	"0.59"	"0.793"
##	"-0.59"	"0"	"0.59"	"0.793"
##	"-0.59"	"0"	"0.59"	"0.767"
##	"-0.59"	"0"	"0.59"	"0.683"
##	"-0.59"	"0"	"0.59"	"0.753"
##	"-0.59"	"0"	"0.59"	"0.805"
##	"-0.59"	"0"	"0.59"	"0.793"
##	"-0.59"	"0"	"0.59"	"0.818"
##	"-0.59"	"0"	"0.59"	"0.74"

##	"-0.59"	"0"	"0.59"	"0.805"
##	"-0.59"	"0"	"0.59"	"0.753"
##	"-0.591"	"42"	"45.85"	"6.511"
##	"-0.591"	"1"	"1.74"	"1.252"
##	"-0.592"	"1"	"1.71"	"1.2"
##	"-0.595"	"1"	"1.7"	"1.176"
##	"-0.596"	"14"	"16.5"	"4.191"
##	"-0.596"	"1"	"1.83"	"1.393"
##	"-0.598"	"3"	"4.13"	"1.889"
##	"-0.598"	"2"	"2.98"	"1.639"
##	"-0.598"	"2"	"2.98"	"1.639"
##	"-0.598"	"2"	"2.98"	"1.639"
##	"-0.598"	"2"	"2.98"	"1.639"
##	"-0.598"	"2"	"2.98"	"1.639"
##	"-0.599"	"1"	"1.7"	"1.168"
##	"-0.599"	"1"	"1.77"	"1.286"
##	"-0.6"	"0"	"0.6"	"0.804"
##	"-0.6"	"0"	"0.6"	"0.804"
##	"-0.6"	"0"	"0.6"	"0.804"
##	"-0.6"	"0"	"0.6"	"0.804"
##	"-0.6"	"0"	"0.6"	"0.752"
##	"-0.6"	"0"	"0.6"	"0.791"
##	"-0.6"	"0"	"0.6"	"0.725"
##	"-0.6"	"0"	"0.6"	"0.804"
##	"-0.6"	"0"	"0.6"	"0.804"
##	"-0.6"	"0"	"0.6"	"0.752"
##	"-0.6"	"0"	"0.6"	"0.739"
##	"-0.6"	"0"	"0.6"	"0.739"
##	"-0.6"	"0"	"0.6"	"0.739"
##	"-0.6"	"0"	"0.6"	"0.778"
##	"-0.6"	"0"	"0.6"	"0.739"
##	"-0.6"	"0"	"0.6"	"0.778"
##	"-0.6"	"0"	"0.6"	"0.739"
##	"-0.602"	"2"	"3.07"	"1.777"
##	"-0.603"	"1"	"1.85"	"1.41"
##	"-0.605"	"4"	"5.21"	"2.001"
##	"-0.605"	"20"	"23.11"	"5.136"
##	"-0.607"	"2"	"2.99"	"1.63"
##	"-0.607"	"3"	"4.1"	"1.812"
##	"-0.608"	"1"	"1.89"	"1.463"
##	"-0.609"	"31"	"34.52"	"5.781"
##	"-0.61"	"0"	"0.61"	"0.737"
##	"-0.61"	"18"	"20.47"	"4.046"
##	"-0.61"	"0"	"0.61"	"0.777"
##	"-0.61"	"0"	"0.61"	"0.723"
##	"-0.61"	"0"	"0.61"	"0.815"
##	"-0.61"	"0"	"0.61"	"0.737"
##	"-0.61"	"0"	"0.61"	"0.764"
##	"-0.61"	"0"	"0.61"	"0.852"
##	"-0.612"	"13"	"15.7"	"4.414"
##	"-0.612"	"7"	"8.79"	"2.924"
##	"-0.612"	"1"	"1.83"	"1.356"
##	"-0.615"	"31"	"34.28"	"5.337"
##	"-0.616"	"5"	"6.35"	"2.19"

##	"-0.617"	"1"	"1.82"	"1.329"
##	"-0.617"	"3"	"4.21"	"1.961"
##	"-0.618"	"5"	"6.65"	"2.668"
##	"-0.619"	"202"	"210.76"	"14.152"
##	"-0.62"	"0"	"0.62"	"0.85"
##	"-0.62"	"0"	"0.62"	"0.826"
##	"-0.62"	"0"	"0.62"	"0.776"
##	"-0.62"	"0"	"0.62"	"0.763"
##	"-0.62"	"0"	"0.62"	"0.789"
##	"-0.62"	"0"	"0.62"	"0.838"
##	"-0.62"	"0"	"0.62"	"0.874"
##	"-0.62"	"0"	"0.62"	"0.801"
##	"-0.62"	"4"	"5.26"	"2.033"
##	"-0.62"	"4"	"5.26"	"2.033"
##	"-0.62"	"0"	"0.62"	"0.776"
##	"-0.62"	"0"	"0.62"	"0.789"
##	"-0.62"	"0"	"0.62"	"0.736"
##	"-0.62"	"0"	"0.62"	"0.789"
##	"-0.62"	"0"	"0.62"	"0.826"
##	"-0.621"	"19"	"22.2"	"5.15"
##	"-0.624"	"4"	"5.38"	"2.21"
##	"-0.625"	"3"	"4.33"	"2.128"
##	"-0.626"	"25"	"28.36"	"5.368"
##	"-0.627"	"72"	"77.61"	"8.944"
##	"-0.628"	"2"	"3.23"	"1.958"
##	"-0.628"	"2"	"3.17"	"1.864"
##	"-0.629"	"37"	"40.58"	"5.689"
##	"-0.63"	"0"	"0.63"	"0.8"
##	"-0.63"	"0"	"0.63"	"0.812"
##	"-0.63"	"0"	"0.63"	"0.734"
##	"-0.63"	"0"	"0.63"	"0.734"
##	"-0.63"	"0"	"0.63"	"0.787"
##	"-0.63"	"0"	"0.63"	"0.734"
##	"-0.63"	"3"	"4.3"	"2.062"
##	"-0.63"	"0"	"0.63"	"0.812"
##	"-0.63"	"0"	"0.63"	"0.734"
##	"-0.63"	"0"	"0.63"	"0.8"
##	"-0.631"	"1"	"1.84"	"1.331"
##	"-0.631"	"1"	"1.84"	"1.331"
##	"-0.631"	"20"	"23.08"	"4.88"
##	"-0.631"	"1"	"1.78"	"1.236"
##	"-0.631"	"12"	"14.45"	"3.88"
##	"-0.632"	"23"	"25.78"	"4.401"
##	"-0.632"	"2"	"3.22"	"1.931"
##	"-0.632"	"175"	"183.11"	"12.827"
##	"-0.632"	"15"	"17.53"	"4.004"
##	"-0.634"	"4"	"5.56"	"2.459"
##	"-0.634"	"51"	"55.41"	"6.952"
##	"-0.635"	"12"	"14.07"	"3.261"
##	"-0.635"	"2"	"3.06"	"1.669"
##	"-0.638"	"47"	"51.55"	"7.13"
##	"-0.639"	"317"	"328.45"	"17.907"
##	"-0.639"	"12"	"14.26"	"3.538"
##	"-0.64"	"0"	"0.64"	"0.811"

##	"-0.64"	"0"	"0.64"	"0.811"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.746"
##	"-0.64"	"0"	"0.64"	"0.704"
##	"-0.64"	"4"	"5.71"	"2.672"
##	"-0.64"	"0"	"0.64"	"0.759"
##	"-0.64"	"0"	"0.64"	"0.811"
##	"-0.64"	"0"	"0.64"	"0.859"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.704"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.746"
##	"-0.64"	"0"	"0.64"	"0.823"
##	"-0.64"	"0"	"0.64"	"0.746"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.704"
##	"-0.64"	"0"	"0.64"	"0.811"
##	"-0.64"	"0"	"0.64"	"0.759"
##	"-0.64"	"0"	"0.64"	"0.732"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.64"	"0"	"0.64"	"0.798"
##	"-0.641"	"2"	"3.13"	"1.762"
##	"-0.641"	"3"	"4.29"	"2.012"
##	"-0.641"	"5"	"6.53"	"2.389"
##	"-0.642"	"2"	"3.14"	"1.775"
##	"-0.642"	"44"	"48.94"	"7.695"
##	"-0.644"	"1"	"1.97"	"1.507"
##	"-0.645"	"1"	"1.92"	"1.426"
##	"-0.645"	"2"	"3.12"	"1.737"
##	"-0.645"	"2"	"3.12"	"1.737"
##	"-0.645"	"1"	"1.92"	"1.426"
##	"-0.645"	"2"	"3.12"	"1.737"
##	"-0.645"	"1"	"1.92"	"1.426"
##	"-0.645"	"1"	"1.92"	"1.426"
##	"-0.646"	"1"	"1.97"	"1.501"
##	"-0.646"	"1"	"1.97"	"1.501"
##	"-0.646"	"3"	"4.31"	"2.029"
##	"-0.647"	"1"	"1.96"	"1.483"
##	"-0.647"	"11"	"13.48"	"3.831"
##	"-0.647"	"1"	"1.81"	"1.253"
##	"-0.648"	"7"	"8.87"	"2.887"
##	"-0.648"	"3"	"4.25"	"1.93"
##	"-0.648"	"1"	"1.88"	"1.358"
##	"-0.648"	"5"	"6.63"	"2.517"

##	"-0.65"	"0"	"0.65"	"0.783"
##	"-0.65"	"0"	"0.65"	"0.757"
##	"-0.65"	"0"	"0.65"	"0.77"
##	"-0.65"	"0"	"0.65"	"0.869"
##	"-0.65"	"0"	"0.65"	"0.744"
##	"-0.65"	"0"	"0.65"	"0.869"
##	"-0.65"	"5"	"6.46"	"2.245"
##	"-0.65"	"0"	"0.65"	"0.77"
##	"-0.65"	"0"	"0.65"	"0.845"
##	"-0.65"	"0"	"0.65"	"0.809"
##	"-0.65"	"0"	"0.65"	"0.77"
##	"-0.65"	"0"	"0.65"	"0.77"
##	"-0.65"	"3"	"4.32"	"2.029"
##	"-0.65"	"0"	"0.65"	"0.892"
##	"-0.65"	"0"	"0.65"	"0.77"
##	"-0.652"	"15"	"17.7"	"4.14"
##	"-0.653"	"42"	"45.98"	"6.092"
##	"-0.654"	"1"	"1.87"	"1.331"
##	"-0.655"	"1"	"1.85"	"1.298"
##	"-0.655"	"5"	"6.59"	"2.429"
##	"-0.655"	"7"	"8.81"	"2.762"
##	"-0.657"	"58"	"63.34"	"8.127"
##	"-0.66"	"0"	"0.66"	"0.781"
##	"-0.66"	"0"	"0.66"	"0.807"
##	"-0.66"	"0"	"0.66"	"0.768"
##	"-0.66"	"1"	"2.03"	"1.56"
##	"-0.66"	"0"	"0.66"	"0.819"
##	"-0.66"	"0"	"0.66"	"0.655"
##	"-0.66"	"0"	"0.66"	"0.831"
##	"-0.66"	"0"	"0.66"	"0.781"
##	"-0.66"	"1"	"2.03"	"1.56"
##	"-0.66"	"0"	"0.66"	"0.714"
##	"-0.66"	"0"	"0.66"	"0.655"
##	"-0.663"	"1"	"1.76"	"1.147"
##	"-0.666"	"56"	"60.64"	"6.971"
##	"-0.669"	"17"	"19.94"	"4.397"
##	"-0.67"	"0"	"0.67"	"0.865"
##	"-0.67"	"0"	"0.67"	"0.805"
##	"-0.67"	"0"	"0.67"	"0.877"
##	"-0.67"	"0"	"0.67"	"0.779"
##	"-0.67"	"0"	"0.67"	"0.726"
##	"-0.67"	"0"	"0.67"	"0.829"
##	"-0.67"	"0"	"0.67"	"0.829"
##	"-0.67"	"0"	"0.67"	"0.779"
##	"-0.67"	"0"	"0.67"	"0.911"
##	"-0.67"	"0"	"0.67"	"0.726"
##	"-0.67"	"3"	"4.42"	"2.119"
##	"-0.67"	"0"	"0.67"	"0.779"
##	"-0.67"	"0"	"0.67"	"0.792"
##	"-0.671"	"38"	"42.36"	"6.496"
##	"-0.673"	"1"	"1.98"	"1.456"
##	"-0.673"	"15"	"17.97"	"4.416"
##	"-0.673"	"6"	"7.84"	"2.733"
##	"-0.673"	"1"	"1.98"	"1.456"

##	"-0.673"	"11"	"13.58"	"3.833"
##	"-0.673"	"8"	"10"	"2.971"
##	"-0.673"	"1"	"1.98"	"1.456"
##	"-0.674"	"9"	"11.61"	"3.871"
##	"-0.676"	"8"	"10.24"	"3.312"
##	"-0.676"	"10"	"12.19"	"3.24"
##	"-0.677"	"2"	"3.22"	"1.801"
##	"-0.677"	"1"	"1.9"	"1.33"
##	"-0.678"	"71"	"76.79"	"8.534"
##	"-0.679"	"4"	"5.43"	"2.105"
##	"-0.68"	"1"	"2.12"	"1.647"
##	"-0.68"	"1"	"2.12"	"1.647"
##	"-0.68"	"0"	"0.68"	"0.803"
##	"-0.68"	"0"	"0.68"	"0.909"
##	"-0.68"	"0"	"0.68"	"0.851"
##	"-0.68"	"0"	"0.68"	"0.827"
##	"-0.68"	"0"	"0.68"	"0.827"
##	"-0.68"	"0"	"0.68"	"0.803"
##	"-0.68"	"0"	"0.68"	"0.803"
##	"-0.68"	"0"	"0.68"	"0.803"
##	"-0.68"	"0"	"0.68"	"0.851"
##	"-0.68"	"0"	"0.68"	"0.815"
##	"-0.68"	"0"	"0.68"	"0.79"
##	"-0.681"	"4"	"5.69"	"2.481"
##	"-0.681"	"51"	"56.45"	"8.002"
##	"-0.682"	"5"	"6.7"	"2.492"
##	"-0.682"	"13"	"15.67"	"3.916"
##	"-0.682"	"13"	"15.67"	"3.916"
##	"-0.683"	"16"	"18.61"	"3.819"
##	"-0.683"	"11"	"13.79"	"4.086"
##	"-0.684"	"1"	"1.97"	"1.417"
##	"-0.686"	"13"	"15.75"	"4.011"
##	"-0.686"	"97"	"103.39"	"9.315"
##	"-0.686"	"1"	"1.87"	"1.269"
##	"-0.69"	"0"	"0.69"	"0.837"
##	"-0.69"	"0"	"0.69"	"0.8"
##	"-0.69"	"0"	"0.69"	"0.837"
##	"-0.69"	"0"	"0.69"	"0.813"
##	"-0.69"	"0"	"0.69"	"0.8"
##	"-0.69"	"0"	"0.69"	"0.692"
##	"-0.69"	"0"	"0.69"	"0.761"
##	"-0.69"	"0"	"0.69"	"0.825"
##	"-0.69"	"0"	"0.69"	"0.787"
##	"-0.69"	"0"	"0.69"	"0.8"
##	"-0.69"	"0"	"0.69"	"0.813"
##	"-0.691"	"4"	"5.51"	"2.186"
##	"-0.692"	"43"	"47.7"	"6.796"
##	"-0.693"	"2"	"3.34"	"1.934"
##	"-0.693"	"3"	"4.46"	"2.105"
##	"-0.693"	"2"	"3.26"	"1.818"
##	"-0.693"	"12"	"14.78"	"4.014"
##	"-0.698"	"16"	"18.72"	"3.895"
##	"-0.7"	"0"	"0.7"	"0.859"
##	"-0.7"	"0"	"0.7"	"0.798"

##	"-0.7"	"0"	"0.7"	"0.823"
##	"-0.7"	"0"	"0.7"	"0.823"
##	"-0.7"	"0"	"0.7"	"0.823"
##	"-0.7"	"0"	"0.7"	"0.823"
##	"-0.7"	"0"	"0.7"	"0.732"
##	"-0.7"	"0"	"0.7"	"0.859"
##	"-0.7"	"0"	"0.7"	"0.882"
##	"-0.702"	"168"	"178.11"	"14.393"
##	"-0.704"	"4"	"5.74"	"2.473"
##	"-0.705"	"7"	"9.15"	"3.05"
##	"-0.706"	"4"	"5.51"	"2.139"
##	"-0.709"	"3"	"4.44"	"2.032"
##	"-0.71"	"0"	"0.71"	"0.868"
##	"-0.71"	"0"	"0.71"	"0.743"
##	"-0.71"	"0"	"0.71"	"0.701"
##	"-0.71"	"0"	"0.71"	"0.891"
##	"-0.71"	"0"	"0.71"	"0.967"
##	"-0.71"	"0"	"0.71"	"0.844"
##	"-0.71"	"0"	"0.71"	"0.856"
##	"-0.71"	"0"	"0.71"	"0.891"
##	"-0.71"	"0"	"0.71"	"0.756"
##	"-0.71"	"0"	"0.71"	"0.891"
##	"-0.71"	"0"	"0.71"	"0.891"
##	"-0.71"	"0"	"0.71"	"0.891"
##	"-0.71"	"0"	"0.71"	"0.844"
##	"-0.71"	"0"	"0.71"	"0.891"
##	"-0.711"	"3"	"4.69"	"2.377"
##	"-0.713"	"1"	"2.05"	"1.473"
##	"-0.714"	"1"	"2.02"	"1.428"
##	"-0.714"	"5"	"6.77"	"2.478"
##	"-0.715"	"5"	"6.96"	"2.741"
##	"-0.715"	"65"	"70.33"	"7.454"
##	"-0.715"	"3"	"4.35"	"1.888"
##	"-0.715"	"16"	"19.34"	"4.671"
##	"-0.715"	"12"	"14.56"	"3.583"
##	"-0.716"	"2"	"3.41"	"1.97"
##	"-0.716"	"4"	"5.75"	"2.443"
##	"-0.716"	"2"	"3.31"	"1.83"
##	"-0.717"	"2"	"3.15"	"1.604"
##	"-0.718"	"1"	"2.12"	"1.559"
##	"-0.718"	"1"	"1.88"	"1.225"
##	"-0.719"	"46"	"51.63"	"7.827"
##	"-0.719"	"1"	"2.2"	"1.67"
##	"-0.72"	"0"	"0.72"	"0.954"
##	"-0.72"	"3"	"4.47"	"2.042"
##	"-0.72"	"0"	"0.72"	"0.866"
##	"-0.72"	"0"	"0.72"	"0.922"
##	"-0.72"	"0"	"0.72"	"0.817"
##	"-0.72"	"0"	"0.72"	"0.922"
##	"-0.72"	"0"	"0.72"	"0.866"
##	"-0.72"	"0"	"0.72"	"0.922"
##	"-0.72"	"0"	"0.72"	"0.922"
##	"-0.72"	"0"	"0.72"	"0.805"
##	"-0.722"	"14"	"17.08"	"4.266"

##	"-0.722"	"56"	"61.73"	"7.942"
##	"-0.722"	"2"	"3.25"	"1.731"
##	"-0.723"	"2"	"3.32"	"1.825"
##	"-0.726"	"11"	"13.76"	"3.801"
##	"-0.727"	"11"	"13.65"	"3.647"
##	"-0.728"	"4"	"5.72"	"2.362"
##	"-0.73"	"0"	"0.73"	"0.839"
##	"-0.73"	"1"	"1.92"	"1.261"
##	"-0.73"	"0"	"0.73"	"0.874"
##	"-0.73"	"0"	"0.73"	"0.679"
##	"-0.73"	"0"	"0.73"	"0.973"
##	"-0.73"	"0"	"0.73"	"0.874"
##	"-0.73"	"0"	"0.73"	"0.763"
##	"-0.73"	"0"	"0.73"	"0.897"
##	"-0.73"	"0"	"0.73"	"0.815"
##	"-0.73"	"110"	"117.86"	"10.768"
##	"-0.73"	"0"	"0.73"	"0.897"
##	"-0.73"	"0"	"0.73"	"0.863"
##	"-0.73"	"0"	"0.73"	"0.897"
##	"-0.73"	"0"	"0.73"	"0.897"
##	"-0.73"	"0"	"0.73"	"0.874"
##	"-0.73"	"0"	"0.73"	"0.897"
##	"-0.73"	"0"	"0.73"	"0.941"
##	"-0.732"	"17"	"20.03"	"4.14"
##	"-0.735"	"37"	"41.73"	"6.432"
##	"-0.736"	"61"	"66.89"	"8.006"
##	"-0.737"	"4"	"5.68"	"2.278"
##	"-0.738"	"5"	"6.89"	"2.562"
##	"-0.738"	"1"	"2.09"	"1.478"
##	"-0.738"	"1"	"2.09"	"1.478"
##	"-0.738"	"2"	"3.54"	"2.086"
##	"-0.738"	"1"	"2.09"	"1.478"
##	"-0.738"	"1"	"2.09"	"1.478"
##	"-0.738"	"1"	"2.09"	"1.478"
##	"-0.738"	"1"	"2.09"	"1.478"
##	"-0.738"	"1"	"2.09"	"1.478"
##	"-0.738"	"1"	"2.09"	"1.478"
##	"-0.738"	"1"	"2.09"	"1.478"
##	"-0.739"	"11"	"13.26"	"3.057"
##	"-0.74"	"0"	"0.74"	"0.812"
##	"-0.74"	"7"	"9.15"	"2.907"
##	"-0.74"	"0"	"0.74"	"0.848"
##	"-0.74"	"0"	"0.74"	"0.787"
##	"-0.74"	"0"	"0.74"	"0.895"
##	"-0.74"	"0"	"0.74"	"0.939"
##	"-0.74"	"0"	"0.74"	"0.848"
##	"-0.74"	"6"	"8.08"	"2.809"
##	"-0.74"	"17"	"20.4"	"4.597"
##	"-0.74"	"0"	"0.74"	"0.883"
##	"-0.74"	"0"	"0.74"	"0.86"
##	"-0.74"	"0"	"0.74"	"0.917"
##	"-0.74"	"0"	"0.74"	"0.96"
##	"-0.74"	"0"	"0.74"	"0.787"
##	"-0.74"	"0"	"0.74"	"0.824"

##	"-0.74"	"0"	"0.74"	"0.939"
##	"-0.74"	"0"	"0.74"	"0.895"
##	"-0.74"	"0"	"0.74"	"0.86"
##	"-0.74"	"0"	"0.74"	"0.96"
##	"-0.741"	"4"	"5.83"	"2.47"
##	"-0.742"	"2"	"3.37"	"1.846"
##	"-0.744"	"1"	"1.98"	"1.318"
##	"-0.744"	"1"	"2.02"	"1.371"
##	"-0.746"	"7"	"9.2"	"2.947"
##	"-0.746"	"94"	"100.65"	"8.916"
##	"-0.746"	"92"	"99.6"	"10.188"
##	"-0.747"	"8"	"10.46"	"3.295"
##	"-0.748"	"9"	"11.37"	"3.168"
##	"-0.749"	"7"	"9.13"	"2.845"
##	"-0.75"	"0"	"0.75"	"0.796"
##	"-0.75"	"0"	"0.75"	"0.821"
##	"-0.75"	"0"	"0.75"	"0.783"
##	"-0.75"	"0"	"0.75"	"0.783"
##	"-0.75"	"0"	"0.75"	"0.783"
##	"-0.75"	"0"	"0.75"	"0.796"
##	"-0.75"	"0"	"0.75"	"0.796"
##	"-0.75"	"0"	"0.75"	"0.783"
##	"-0.75"	"0"	"0.75"	"0.796"
##	"-0.75"	"0"	"0.75"	"0.783"
##	"-0.75"	"0"	"0.75"	"0.783"
##	"-0.75"	"0"	"0.75"	"0.796"
##	"-0.75"	"0"	"0.75"	"0.833"
##	"-0.75"	"0"	"0.75"	"0.892"
##	"-0.751"	"8"	"10.53"	"3.368"
##	"-0.751"	"4"	"5.68"	"2.238"
##	"-0.757"	"2"	"3.23"	"1.626"
##	"-0.757"	"1"	"2.02"	"1.348"
##	"-0.757"	"1"	"2.08"	"1.426"
##	"-0.758"	"2"	"3.43"	"1.887"
##	"-0.758"	"2"	"3.31"	"1.727"
##	"-0.758"	"3"	"4.58"	"2.085"
##	"-0.758"	"3"	"4.58"	"2.085"
##	"-0.759"	"2"	"3.52"	"2.002"
##	"-0.759"	"16"	"19.25"	"4.281"
##	"-0.759"	"29"	"33.31"	"5.681"
##	"-0.759"	"2"	"3.39"	"1.831"
##	"-0.76"	"0"	"0.76"	"0.842"
##	"-0.76"	"0"	"0.76"	"0.866"
##	"-0.76"	"16"	"19.5"	"4.605"
##	"-0.76"	"21"	"24.76"	"4.948"
##	"-0.76"	"0"	"0.76"	"0.911"
##	"-0.76"	"0"	"0.76"	"0.911"
##	"-0.76"	"0"	"0.76"	"0.9"
##	"-0.76"	"0"	"0.76"	"0.866"
##	"-0.76"	"0"	"0.76"	"0.866"
##	"-0.76"	"0"	"0.76"	"0.866"
##	"-0.76"	"0"	"0.76"	"0.78"
##	"-0.76"	"0"	"0.76"	"0.944"
##	"-0.76"	"0"	"0.76"	"0.78"

##	"-0.76"	"0"	"0.76"	"0.83"
##	"-0.76"	"0"	"0.76"	"0.78"
##	"-0.761"	"54"	"59.46"	"7.174"
##	"-0.761"	"2"	"3.44"	"1.893"
##	"-0.762"	"18"	"21.6"	"4.725"
##	"-0.762"	"3"	"4.61"	"2.112"
##	"-0.762"	"1"	"2.16"	"1.522"
##	"-0.762"	"1"	"2.06"	"1.391"
##	"-0.763"	"1"	"2.09"	"1.429"
##	"-0.763"	"3"	"4.52"	"1.992"
##	"-0.763"	"3"	"4.52"	"1.992"
##	"-0.763"	"3"	"4.52"	"1.992"
##	"-0.764"	"1"	"2.2"	"1.57"
##	"-0.766"	"1"	"1.97"	"1.267"
##	"-0.766"	"1"	"2.06"	"1.384"
##	"-0.768"	"80"	"86.74"	"8.777"
##	"-0.768"	"21"	"24.76"	"4.897"
##	"-0.769"	"4"	"5.74"	"2.264"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.908"
##	"-0.77"	"0"	"0.77"	"0.886"
##	"-0.77"	"1"	"2.13"	"1.468"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.92"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.863"
##	"-0.77"	"0"	"0.77"	"0.863"
##	"-0.77"	"0"	"0.77"	"0.863"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.952"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.839"
##	"-0.77"	"0"	"0.77"	"0.952"
##	"-0.77"	"0"	"0.77"	"0.886"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.839"
##	"-0.77"	"0"	"0.77"	"0.815"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.763"
##	"-0.77"	"0"	"0.77"	"0.827"

##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.77"	"0"	"0.77"	"0.827"
##	"-0.771"	"1"	"2.17"	"1.518"
##	"-0.772"	"2"	"3.44"	"1.866"
##	"-0.772"	"3"	"4.47"	"1.904"
##	"-0.774"	"2"	"3.24"	"1.603"
##	"-0.775"	"11"	"13.79"	"3.602"
##	"-0.776"	"1"	"2.16"	"1.496"
##	"-0.78"	"0"	"0.78"	"0.98"
##	"-0.78"	"0"	"0.78"	"0.894"
##	"-0.78"	"0"	"0.78"	"0.848"
##	"-0.78"	"0"	"0.78"	"0.848"
##	"-0.78"	"0"	"0.78"	"0.811"
##	"-0.78"	"0"	"0.78"	"0.917"
##	"-0.78"	"0"	"0.78"	"0.824"
##	"-0.78"	"0"	"0.78"	"0.824"
##	"-0.78"	"0"	"0.78"	"0.905"
##	"-0.78"	"0"	"0.78"	"0.824"
##	"-0.78"	"0"	"0.78"	"0.883"
##	"-0.78"	"0"	"0.78"	"0.811"
##	"-0.782"	"7"	"9.29"	"2.928"
##	"-0.782"	"12"	"14.61"	"3.336"
##	"-0.783"	"2"	"3.57"	"2.006"
##	"-0.784"	"7"	"9.68"	"3.417"
##	"-0.788"	"2"	"3.39"	"1.763"
##	"-0.789"	"9"	"11.51"	"3.18"
##	"-0.79"	"11"	"14.05"	"3.862"
##	"-0.79"	"2"	"3.36"	"1.72"
##	"-0.79"	"0"	"0.79"	"0.967"
##	"-0.79"	"0"	"0.79"	"0.967"
##	"-0.79"	"0"	"0.79"	"0.967"
##	"-0.79"	"0"	"0.79"	"0.967"
##	"-0.79"	"0"	"0.79"	"0.967"
##	"-0.79"	"0"	"0.79"	"0.82"
##	"-0.79"	"0"	"0.79"	"0.808"
##	"-0.79"	"0"	"0.79"	"0.844"
##	"-0.79"	"0"	"0.79"	"0.715"
##	"-0.79"	"0"	"0.79"	"0.808"
##	"-0.79"	"4"	"5.84"	"2.33"
##	"-0.79"	"0"	"0.79"	"0.946"
##	"-0.79"	"0"	"0.79"	"0.967"
##	"-0.79"	"0"	"0.79"	"0.924"
##	"-0.79"	"0"	"0.79"	"0.967"
##	"-0.79"	"11"	"14.05"	"3.862"
##	"-0.79"	"0"	"0.79"	"0.844"
##	"-0.791"	"1"	"2.06"	"1.34"
##	"-0.792"	"2"	"3.5"	"1.894"
##	"-0.792"	"88"	"96.36"	"10.554"
##	"-0.793"	"0"	"0.81"	"1.022"
##	"-0.794"	"3"	"4.82"	"2.294"
##	"-0.794"	"0"	"0.83"	"1.045"
##	"-0.795"	"22"	"25.97"	"4.992"
##	"-0.796"	"15"	"17.79"	"3.506"
##	"-0.796"	"4"	"5.81"	"2.273"

##	"-0.796"	"1"	"2.35"	"1.696"
##	"-0.796"	"1"	"2.35"	"1.696"
##	"-0.797"	"2"	"3.53"	"1.92"
##	"-0.797"	"8"	"10.31"	"2.898"
##	"-0.798"	"1"	"2.29"	"1.616"
##	"-0.798"	"1"	"2.22"	"1.528"
##	"-0.798"	"115"	"124.61"	"12.043"
##	"-0.799"	"1"	"2.09"	"1.364"
##	"-0.799"	"1"	"2.09"	"1.364"
##	"-0.799"	"2"	"3.47"	"1.839"
##	"-0.799"	"1"	"2.09"	"1.364"
##	"-0.8"	"0"	"0.8"	"0.899"
##	"-0.8"	"0"	"0.8"	"0.974"
##	"-0.8"	"0"	"0.8"	"0.943"
##	"-0.8"	"276"	"289.32"	"16.642"
##	"-0.8"	"2"	"3.52"	"1.899"
##	"-0.8"	"0"	"0.8"	"0.876"
##	"-0.8"	"0"	"0.8"	"0.865"
##	"-0.8"	"0"	"0.8"	"0.829"
##	"-0.8"	"0"	"0.8"	"0.791"
##	"-0.8"	"0"	"0.8"	"0.888"
##	"-0.8"	"0"	"0.8"	"0.765"
##	"-0.8"	"0"	"0.8"	"0.791"
##	"-0.8"	"0"	"0.8"	"0.921"
##	"-0.8"	"0"	"0.8"	"0.964"
##	"-0.8"	"1"	"2.06"	"1.324"
##	"-0.8"	"0"	"0.8"	"0.853"
##	"-0.801"	"1"	"2.23"	"1.536"
##	"-0.801"	"1"	"2.23"	"1.536"
##	"-0.801"	"1"	"2.18"	"1.473"
##	"-0.801"	"1"	"2.23"	"1.536"
##	"-0.804"	"2"	"3.41"	"1.753"
##	"-0.804"	"1"	"2.15"	"1.431"
##	"-0.804"	"12"	"14.81"	"3.495"
##	"-0.805"	"3"	"4.57"	"1.95"
##	"-0.806"	"14"	"17.35"	"4.155"
##	"-0.806"	"7"	"9.36"	"2.929"
##	"-0.806"	"7"	"9.36"	"2.929"
##	"-0.806"	"7"	"9.36"	"2.929"
##	"-0.809"	"21"	"24.98"	"4.917"
##	"-0.809"	"1"	"2.27"	"1.569"
##	"-0.81"	"2"	"3.36"	"1.679"
##	"-0.81"	"2"	"3.36"	"1.679"
##	"-0.81"	"2"	"3.36"	"1.679"
##	"-0.81"	"0"	"0.81"	"0.907"
##	"-0.81"	"2"	"3.36"	"1.679"
##	"-0.81"	"2"	"3.36"	"1.679"
##	"-0.81"	"0"	"0.81"	"0.918"
##	"-0.81"	"0"	"0.81"	"0.907"
##	"-0.81"	"0"	"0.81"	"0.849"
##	"-0.81"	"0"	"0.81"	"0.929"
##	"-0.81"	"0"	"0.81"	"0.918"
##	"-0.812"	"31"	"36.03"	"6.191"
##	"-0.812"	"1"	"2.09"	"1.342"

##	"-0.813"	"1"	"2.27"	"1.563"
##	"-0.813"	"1"	"2.18"	"1.452"
##	"-0.813"	"1"	"2.18"	"1.452"
##	"-0.813"	"19"	"22.51"	"4.319"
##	"-0.814"	"13"	"15.88"	"3.537"
##	"-0.814"	"49"	"54.65"	"6.937"
##	"-0.814"	"2"	"3.29"	"1.585"
##	"-0.815"	"19"	"22.55"	"4.354"
##	"-0.816"	"48"	"53.74"	"7.038"
##	"-0.816"	"60"	"66.48"	"7.939"
##	"-0.816"	"31"	"35.57"	"5.602"
##	"-0.817"	"464"	"483.16"	"23.461"
##	"-0.819"	"5"	"7.05"	"2.504"
##	"-0.82"	"0"	"0.82"	"0.857"
##	"-0.82"	"0"	"0.82"	"0.903"
##	"-0.82"	"0"	"0.82"	"0.857"
##	"-0.82"	"0"	"0.82"	"0.869"
##	"-0.82"	"0"	"0.82"	"0.809"
##	"-0.82"	"0"	"0.82"	"0.903"
##	"-0.82"	"0"	"0.82"	"0.869"
##	"-0.82"	"0"	"0.82"	"0.809"
##	"-0.82"	"0"	"0.82"	"0.936"
##	"-0.82"	"0"	"0.82"	"0.936"
##	"-0.82"	"0"	"0.82"	"0.968"
##	"-0.82"	"0"	"0.82"	"0.857"
##	"-0.821"	"2"	"3.29"	"1.572"
##	"-0.822"	"15"	"18.56"	"4.331"
##	"-0.822"	"1"	"2.37"	"1.668"
##	"-0.822"	"41"	"46.23"	"6.363"
##	"-0.822"	"3"	"4.83"	"2.225"
##	"-0.825"	"2"	"3.5"	"1.817"
##	"-0.825"	"3"	"4.64"	"1.987"
##	"-0.825"	"5"	"7.28"	"2.764"
##	"-0.825"	"12"	"14.75"	"3.334"
##	"-0.826"	"2"	"3.55"	"1.877"
##	"-0.828"	"0"	"0.87"	"1.051"
##	"-0.828"	"0"	"0.87"	"1.051"
##	"-0.828"	"0"	"0.87"	"1.051"
##	"-0.828"	"5"	"7.38"	"2.874"
##	"-0.828"	"1"	"2.26"	"1.522"
##	"-0.829"	"11"	"13.94"	"3.547"
##	"-0.829"	"1"	"2.02"	"1.231"
##	"-0.83"	"0"	"0.83"	"0.911"
##	"-0.83"	"0"	"0.83"	"0.9"
##	"-0.83"	"0"	"0.83"	"0.842"
##	"-0.83"	"0"	"0.83"	"0.865"
##	"-0.83"	"0"	"0.83"	"0.922"
##	"-0.83"	"0"	"0.83"	"0.817"
##	"-0.83"	"0"	"0.83"	"0.911"
##	"-0.83"	"1"	"2.27"	"1.53"
##	"-0.83"	"0"	"0.83"	"0.911"
##	"-0.83"	"0"	"0.84"	"1.012"
##	"-0.83"	"0"	"0.83"	"0.911"
##	"-0.83"	"0"	"0.83"	"0.911"

##	"-0.83"	"0"	"0.83"	"0.829"
##	"-0.83"	"0"	"0.83"	"0.829"
##	"-0.83"	"0"	"0.83"	"0.911"
##	"-0.831"	"3"	"4.65"	"1.987"
##	"-0.832"	"6"	"8.31"	"2.777"
##	"-0.833"	"243"	"255.46"	"14.964"
##	"-0.833"	"1"	"2.15"	"1.381"
##	"-0.833"	"1"	"2.15"	"1.381"
##	"-0.833"	"1"	"2.15"	"1.381"
##	"-0.834"	"1"	"2.29"	"1.546"
##	"-0.835"	"1"	"2.47"	"1.761"
##	"-0.835"	"172"	"183.02"	"13.2"
##	"-0.835"	"1"	"2.31"	"1.568"
##	"-0.835"	"1"	"2.31"	"1.568"
##	"-0.835"	"1"	"2.07"	"1.281"
##	"-0.835"	"1"	"2.24"	"1.485"
##	"-0.835"	"1"	"2.07"	"1.281"
##	"-0.835"	"1"	"2.07"	"1.281"
##	"-0.836"	"1"	"2.28"	"1.531"
##	"-0.836"	"18"	"21.97"	"4.747"
##	"-0.837"	"31"	"35.82"	"5.757"
##	"-0.837"	"61"	"66.44"	"6.5"
##	"-0.839"	"1"	"2.28"	"1.525"
##	"-0.839"	"2"	"3.63"	"1.942"
##	"-0.839"	"2"	"3.52"	"1.812"
##	"-0.84"	"0"	"0.84"	"0.896"
##	"-0.84"	"0"	"0.84"	"0.884"
##	"-0.84"	"0"	"0.84"	"0.861"
##	"-0.84"	"1"	"2.3"	"1.547"
##	"-0.84"	"0"	"0.84"	"0.884"
##	"-0.841"	"43"	"48.32"	"6.326"
##	"-0.845"	"1"	"2.06"	"1.254"
##	"-0.845"	"1"	"2.32"	"1.563"
##	"-0.845"	"1"	"2.06"	"1.254"
##	"-0.846"	"1"	"2.07"	"1.265"
##	"-0.847"	"23"	"27.48"	"5.289"
##	"-0.847"	"0"	"0.86"	"1.015"
##	"-0.847"	"0"	"0.86"	"1.015"
##	"-0.847"	"0"	"0.86"	"1.015"
##	"-0.848"	"34"	"38.94"	"5.824"
##	"-0.848"	"5"	"7.05"	"2.418"
##	"-0.848"	"5"	"7.05"	"2.418"
##	"-0.849"	"5"	"7.15"	"2.532"
##	"-0.849"	"138"	"148.02"	"11.803"
##	"-0.85"	"58"	"64.11"	"7.187"
##	"-0.85"	"0"	"0.85"	"0.936"
##	"-0.85"	"0"	"0.85"	"0.925"
##	"-0.85"	"1"	"2.14"	"1.341"
##	"-0.85"	"0"	"0.85"	"0.925"
##	"-0.85"	"0"	"0.85"	"0.925"
##	"-0.85"	"0"	"0.85"	"0.936"
##	"-0.85"	"0"	"0.85"	"0.925"
##	"-0.85"	"1"	"2.14"	"1.341"
##	"-0.85"	"0"	"0.85"	"0.857"

##	"-0.85"	"0"	"0.85"	"0.845"
##	"-0.85"	"0"	"0.85"	"0.925"
##	"-0.85"	"0"	"0.85"	"0.892"
##	"-0.85"	"0"	"0.85"	"0.989"
##	"-0.851"	"37"	"42.14"	"6.04"
##	"-0.851"	"53"	"59.32"	"7.425"
##	"-0.851"	"6"	"8.65"	"3.115"
##	"-0.852"	"2"	"3.5"	"1.761"
##	"-0.853"	"1"	"2.43"	"1.677"
##	"-0.854"	"3"	"4.8"	"2.108"
##	"-0.855"	"13"	"16.24"	"3.788"
##	"-0.855"	"43"	"48.26"	"6.152"
##	"-0.857"	"20"	"24.23"	"4.938"
##	"-0.857"	"1"	"2.31"	"1.529"
##	"-0.857"	"1"	"2.2"	"1.4"
##	"-0.858"	"2"	"3.59"	"1.854"
##	"-0.858"	"1"	"2.17"	"1.364"
##	"-0.859"	"13"	"16.32"	"3.866"
##	"-0.859"	"19"	"23.19"	"4.88"
##	"-0.86"	"0"	"0.86"	"0.932"
##	"-0.86"	"0"	"0.86"	"0.841"
##	"-0.86"	"0"	"0.86"	"0.865"
##	"-0.86"	"0"	"0.86"	"0.899"
##	"-0.86"	"0"	"0.86"	"0.804"
##	"-0.86"	"0"	"0.86"	"0.829"
##	"-0.86"	"0"	"0.86"	"0.865"
##	"-0.86"	"0"	"0.86"	"0.804"
##	"-0.86"	"0"	"0.86"	"0.829"
##	"-0.86"	"0"	"0.86"	"0.804"
##	"-0.86"	"0"	"0.86"	"0.841"
##	"-0.86"	"0"	"0.86"	"0.853"
##	"-0.86"	"0"	"0.86"	"0.954"
##	"-0.861"	"1"	"2.33"	"1.544"
##	"-0.861"	"10"	"12.99"	"3.471"
##	"-0.861"	"1"	"2.33"	"1.544"
##	"-0.865"	"12"	"15.21"	"3.71"
##	"-0.866"	"5"	"7.24"	"2.586"
##	"-0.867"	"3"	"4.97"	"2.272"
##	"-0.867"	"1"	"2.4"	"1.614"
##	"-0.867"	"10"	"12.93"	"3.379"
##	"-0.868"	"14"	"17.53"	"4.066"
##	"-0.869"	"2"	"3.76"	"2.026"
##	"-0.869"	"91"	"99.23"	"9.473"
##	"-0.87"	"0"	"0.87"	"0.971"
##	"-0.87"	"0"	"0.87"	"0.884"
##	"-0.87"	"0"	"0.87"	"0.837"
##	"-0.87"	"0"	"0.87"	"0.95"
##	"-0.87"	"0"	"0.87"	"0.981"
##	"-0.87"	"0"	"0.87"	"0.981"
##	"-0.87"	"0"	"0.87"	"0.939"
##	"-0.87"	"0"	"0.87"	"0.971"
##	"-0.87"	"0"	"0.87"	"0.884"
##	"-0.87"	"0"	"0.87"	"0.837"
##	"-0.87"	"0"	"0.87"	"0.971"

##	"-0.871"	"2"	"3.74"	"1.998"
##	"-0.871"	"4"	"6.2"	"2.527"
##	"-0.871"	"11"	"14.07"	"3.523"
##	"-0.872"	"6"	"8.49"	"2.855"
##	"-0.872"	"6"	"8.49"	"2.855"
##	"-0.872"	"6"	"8.49"	"2.855"
##	"-0.872"	"6"	"8.49"	"2.855"
##	"-0.872"	"6"	"8.49"	"2.855"
##	"-0.872"	"8"	"10.64"	"3.027"
##	"-0.872"	"6"	"8.49"	"2.855"
##	"-0.872"	"6"	"8.49"	"2.855"
##	"-0.872"	"6"	"8.49"	"2.855"
##	"-0.873"	"0"	"0.88"	"1.008"
##	"-0.875"	"10"	"13.23"	"3.69"
##	"-0.876"	"92"	"100.75"	"9.987"
##	"-0.876"	"3"	"5.07"	"2.362"
##	"-0.878"	"34"	"39.26"	"5.991"
##	"-0.878"	"6"	"8.62"	"2.984"
##	"-0.88"	"0"	"0.88"	"0.998"
##	"-0.88"	"0"	"0.88"	"0.967"
##	"-0.88"	"0"	"0.88"	"0.844"
##	"-0.88"	"0"	"0.88"	"0.998"
##	"-0.88"	"0"	"0.88"	"0.924"
##	"-0.88"	"0"	"0.88"	"0.998"
##	"-0.88"	"0"	"0.88"	"0.998"
##	"-0.88"	"0"	"0.88"	"0.879"
##	"-0.88"	"0"	"0.96"	"1.091"
##	"-0.88"	"0"	"0.88"	"0.967"
##	"-0.88"	"0"	"0.88"	"0.946"
##	"-0.88"	"1"	"2.13"	"1.284"
##	"-0.88"	"0"	"0.88"	"0.998"
##	"-0.88"	"0"	"0.88"	"0.998"
##	"-0.88"	"0"	"0.88"	"0.946"
##	"-0.88"	"0"	"0.88"	"0.998"
##	"-0.882"	"3"	"4.83"	"2.075"
##	"-0.882"	"7"	"9.04"	"2.313"
##	"-0.884"	"276"	"295.39"	"21.944"
##	"-0.885"	"80"	"89.04"	"10.213"
##	"-0.885"	"1"	"2.4"	"1.583"
##	"-0.885"	"6"	"8.29"	"2.587"
##	"-0.885"	"0"	"0.94"	"1.062"
##	"-0.885"	"0"	"0.94"	"1.062"
##	"-0.886"	"0"	"0.89"	"1.004"
##	"-0.886"	"0"	"0.89"	"1.004"
##	"-0.886"	"0"	"0.89"	"1.004"
##	"-0.887"	"6"	"8.56"	"2.886"
##	"-0.888"	"0"	"0.99"	"1.115"
##	"-0.889"	"74"	"81.7"	"8.658"
##	"-0.889"	"112"	"121.13"	"10.265"
##	"-0.889"	"2"	"3.88"	"2.114"
##	"-0.89"	"0"	"0.89"	"0.886"
##	"-0.89"	"0"	"0.89"	"0.994"
##	"-0.89"	"0"	"0.89"	"0.92"

##	"-0.89"	"0"	"0.89"	"0.994"
##	"-0.89"	"0"	"0.89"	"0.863"
##	"-0.89"	"18"	"21.65"	"4.101"
##	"-0.89"	"0"	"0.89"	"0.973"
##	"-0.89"	"0"	"0.89"	"0.92"
##	"-0.89"	"29"	"34.3"	"5.952"
##	"-0.89"	"0"	"0.89"	"0.973"
##	"-0.89"	"0"	"0.89"	"0.863"
##	"-0.89"	"0"	"0.89"	"0.79"
##	"-0.89"	"0"	"0.89"	"0.815"
##	"-0.89"	"0"	"0.89"	"0.931"
##	"-0.891"	"15"	"18.73"	"4.187"
##	"-0.892"	"15"	"18.46"	"3.881"
##	"-0.892"	"33"	"38.99"	"6.713"
##	"-0.893"	"1"	"2.46"	"1.636"
##	"-0.893"	"1"	"2.39"	"1.556"
##	"-0.895"	"1"	"2.43"	"1.597"
##	"-0.896"	"0"	"0.91"	"1.016"
##	"-0.896"	"22"	"26.13"	"4.609"
##	"-0.896"	"7"	"9.97"	"3.313"
##	"-0.898"	"167"	"177.52"	"11.711"
##	"-0.898"	"24"	"28.63"	"5.157"
##	"-0.9"	"0"	"0.9"	"0.948"
##	"-0.9"	"0"	"0.9"	"0.98"
##	"-0.9"	"1"	"2.33"	"1.477"
##	"-0.9"	"24"	"27.84"	"4.268"
##	"-0.9"	"0"	"0.9"	"0.948"
##	"-0.9"	"0"	"0.9"	"0.847"
##	"-0.9"	"0"	"0.9"	"0.835"
##	"-0.9"	"0"	"0.9"	"0.835"
##	"-0.9"	"0"	"0.9"	"0.99"
##	"-0.9"	"0"	"0.9"	"0.927"
##	"-0.9"	"0"	"0.9"	"0.893"
##	"-0.9"	"0"	"0.9"	"0.948"
##	"-0.901"	"11"	"14.52"	"3.907"
##	"-0.901"	"11"	"14.52"	"3.907"
##	"-0.901"	"11"	"14.52"	"3.907"
##	"-0.902"	"1"	"2.38"	"1.529"
##	"-0.904"	"15"	"18.72"	"4.117"
##	"-0.904"	"15"	"18.27"	"3.618"
##	"-0.904"	"5"	"7.25"	"2.488"
##	"-0.904"	"1"	"2.55"	"1.714"
##	"-0.905"	"0"	"0.91"	"1.006"
##	"-0.905"	"5"	"7.56"	"2.83"
##	"-0.905"	"0"	"0.91"	"1.006"
##	"-0.906"	"0"	"0.95"	"1.048"
##	"-0.908"	"62"	"69.69"	"8.469"
##	"-0.909"	"1"	"2.31"	"1.44"
##	"-0.91"	"0"	"0.91"	"0.911"
##	"-0.91"	"0"	"0.91"	"0.83"
##	"-0.91"	"0"	"0.91"	"0.933"
##	"-0.91"	"0"	"0.91"	"0.933"
##	"-0.91"	"0"	"0.91"	"0.922"
##	"-0.91"	"101"	"111.23"	"11.243"

##	"-0.91"	"0"	"0.91"	"0.954"
##	"-0.91"	"0"	"0.91"	"0.996"
##	"-0.91"	"0"	"0.91"	"0.975"
##	"-0.91"	"0"	"0.91"	"0.83"
##	"-0.91"	"0"	"0.91"	"0.922"
##	"-0.915"	"1"	"2.45"	"1.585"
##	"-0.916"	"0"	"1"	"1.092"
##	"-0.916"	"0"	"0.97"	"1.058"
##	"-0.917"	"2"	"3.93"	"2.105"
##	"-0.917"	"67"	"73.71"	"7.316"
##	"-0.918"	"3"	"4.92"	"2.092"
##	"-0.918"	"16"	"20.03"	"4.389"
##	"-0.919"	"0"	"0.94"	"1.023"
##	"-0.919"	"0"	"0.94"	"1.023"
##	"-0.92"	"0"	"0.92"	"0.907"
##	"-0.92"	"0"	"0.92"	"0.918"
##	"-0.92"	"0"	"0.92"	"0.971"
##	"-0.92"	"0"	"0.92"	"0.929"
##	"-0.92"	"0"	"0.92"	"0.971"
##	"-0.92"	"0"	"0.92"	"0.918"
##	"-0.92"	"0"	"0.92"	"0.918"
##	"-0.92"	"0"	"0.92"	"0.918"
##	"-0.92"	"0"	"0.92"	"0.872"
##	"-0.92"	"0"	"0.92"	"0.961"
##	"-0.92"	"0"	"0.92"	"0.918"
##	"-0.921"	"4"	"6.53"	"2.747"
##	"-0.921"	"4"	"6.53"	"2.747"
##	"-0.921"	"4"	"6.53"	"2.747"
##	"-0.922"	"58"	"66.32"	"9.023"
##	"-0.922"	"0"	"0.98"	"1.063"
##	"-0.923"	"1"	"2.36"	"1.474"
##	"-0.925"	"1"	"2.41"	"1.525"
##	"-0.925"	"0"	"0.97"	"1.049"
##	"-0.926"	"6"	"8.38"	"2.569"
##	"-0.927"	"1"	"2.36"	"1.467"
##	"-0.927"	"1"	"2.36"	"1.467"
##	"-0.927"	"1"	"2.2"	"1.295"
##	"-0.93"	"0"	"0.93"	"0.756"
##	"-0.93"	"0"	"0.93"	"0.956"
##	"-0.93"	"0"	"0.93"	"0.891"
##	"-0.93"	"0"	"0.93"	"0.967"
##	"-0.93"	"0"	"0.93"	"0.967"
##	"-0.93"	"0"	"0.93"	"0.856"
##	"-0.93"	"1"	"2.29"	"1.387"
##	"-0.93"	"0"	"0.93"	"0.977"
##	"-0.93"	"0"	"0.93"	"0.756"
##	"-0.93"	"0"	"0.93"	"0.756"
##	"-0.93"	"0"	"0.93"	"0.756"
##	"-0.93"	"0"	"0.93"	"0.756"
##	"-0.93"	"0"	"0.93"	"0.891"
##	"-0.93"	"0"	"0.93"	"0.891"
##	"-0.931"	"1"	"2.4"	"1.504"
##	"-0.931"	"2"	"3.95"	"2.096"
##	"-0.932"	"125"	"135.58"	"11.347"

##	"-0.932"	"12"	"15.71"	"3.98"
##	"-0.932"	"104"	"113.09"	"9.756"
##	"-0.933"	"21"	"24.76"	"4.03"
##	"-0.933"	"1"	"2.41"	"1.512"
##	"-0.933"	"0"	"0.97"	"1.039"
##	"-0.933"	"0"	"0.97"	"1.039"
##	"-0.934"	"0"	"1.06"	"1.135"
##	"-0.934"	"0"	"1.06"	"1.135"
##	"-0.935"	"3"	"4.95"	"2.086"
##	"-0.936"	"37"	"42.33"	"5.696"
##	"-0.937"	"0"	"0.94"	"1.003"
##	"-0.937"	"6"	"9.02"	"3.222"
##	"-0.938"	"2"	"4.05"	"2.185"
##	"-0.939"	"3"	"4.93"	"2.056"
##	"-0.939"	"0"	"1.13"	"1.203"
##	"-0.94"	"0"	"0.94"	"0.874"
##	"-0.94"	"11"	"14.45"	"3.672"
##	"-0.94"	"0"	"0.94"	"0.93"
##	"-0.94"	"0"	"0.94"	"0.908"
##	"-0.941"	"5"	"7.49"	"2.646"
##	"-0.945"	"6"	"8.49"	"2.634"
##	"-0.945"	"3"	"5.17"	"2.296"
##	"-0.946"	"1"	"2.45"	"1.533"
##	"-0.946"	"1"	"2.58"	"1.671"
##	"-0.947"	"1"	"2.64"	"1.732"
##	"-0.948"	"0"	"1.03"	"1.087"
##	"-0.948"	"16"	"20.5"	"4.745"
##	"-0.949"	"2"	"3.75"	"1.844"
##	"-0.95"	"0"	"0.95"	"0.999"
##	"-0.95"	"0"	"0.95"	"0.925"
##	"-0.95"	"1"	"2.57"	"1.653"
##	"-0.95"	"0"	"0.95"	"0.88"
##	"-0.95"	"1"	"2.33"	"1.4"
##	"-0.95"	"0"	"0.95"	"0.925"
##	"-0.95"	"0"	"0.95"	"0.947"
##	"-0.951"	"11"	"14.81"	"4.007"
##	"-0.951"	"1"	"2.6"	"1.682"
##	"-0.952"	"4"	"6.01"	"2.111"
##	"-0.953"	"12"	"15.57"	"3.745"
##	"-0.954"	"0"	"1.07"	"1.121"
##	"-0.954"	"0"	"1.01"	"1.059"
##	"-0.955"	"0"	"1.11"	"1.163"
##	"-0.956"	"0"	"1.03"	"1.077"
##	"-0.956"	"231"	"244.08"	"13.677"
##	"-0.956"	"0"	"1.18"	"1.234"
##	"-0.956"	"0"	"1.18"	"1.234"
##	"-0.956"	"0"	"1.18"	"1.234"
##	"-0.957"	"0"	"1"	"1.044"
##	"-0.957"	"2"	"3.75"	"1.828"
##	"-0.958"	"1"	"2.45"	"1.513"
##	"-0.96"	"12"	"15.67"	"3.822"
##	"-0.96"	"1"	"2.28"	"1.334"
##	"-0.96"	"0"	"0.96"	"0.963"
##	"-0.96"	"0"	"0.96"	"0.909"

##	"-0.96"	"0"	"0.96"	"0.963"
##	"-0.96"	"0"	"0.96"	"0.84"
##	"-0.962"	"14"	"18.33"	"4.502"
##	"-0.963"	"6"	"8.48"	"2.576"
##	"-0.963"	"7"	"9.81"	"2.919"
##	"-0.963"	"0"	"1.01"	"1.049"
##	"-0.964"	"1"	"2.62"	"1.68"
##	"-0.964"	"0"	"1.03"	"1.068"
##	"-0.964"	"1"	"2.62"	"1.68"
##	"-0.964"	"1"	"2.62"	"1.68"
##	"-0.964"	"1"	"2.62"	"1.68"
##	"-0.965"	"0"	"1.14"	"1.181"
##	"-0.965"	"1"	"2.48"	"1.534"
##	"-0.966"	"3"	"5.56"	"2.649"
##	"-0.966"	"0"	"0.98"	"1.015"
##	"-0.966"	"10"	"13.46"	"3.58"
##	"-0.966"	"0"	"0.98"	"1.015"
##	"-0.966"	"117"	"126.15"	"9.472"
##	"-0.967"	"67"	"76.12"	"9.428"
##	"-0.969"	"0"	"1.39"	"1.435"
##	"-0.969"	"4"	"6.36"	"2.435"
##	"-0.969"	"7"	"10.04"	"3.136"
##	"-0.969"	"0"	"1.39"	"1.435"
##	"-0.97"	"0"	"0.97"	"0.969"
##	"-0.97"	"0"	"0.97"	"0.958"
##	"-0.97"	"0"	"0.97"	"1"
##	"-0.97"	"0"	"0.97"	"0.979"
##	"-0.97"	"0"	"0.97"	"0.958"
##	"-0.97"	"0"	"0.97"	"0.958"
##	"-0.97"	"0"	"0.97"	"1"
##	"-0.97"	"0"	"0.97"	"0.958"
##	"-0.97"	"0"	"0.97"	"0.958"
##	"-0.971"	"0"	"1.1"	"1.133"
##	"-0.971"	"4"	"6.79"	"2.872"
##	"-0.972"	"31"	"37.11"	"6.288"
##	"-0.973"	"1"	"2.56"	"1.604"
##	"-0.975"	"0"	"0.98"	"1.005"
##	"-0.976"	"0"	"1"	"1.025"
##	"-0.976"	"1"	"2.66"	"1.701"
##	"-0.977"	"0"	"1.02"	"1.044"
##	"-0.977"	"27"	"32.88"	"6.021"
##	"-0.978"	"12"	"14.81"	"2.873"
##	"-0.978"	"1"	"2.62"	"1.656"
##	"-0.978"	"1"	"2.46"	"1.494"
##	"-0.979"	"0"	"1.1"	"1.124"
##	"-0.98"	"0"	"0.98"	"0.995"
##	"-0.98"	"0"	"0.98"	"0.985"
##	"-0.98"	"0"	"0.98"	"0.985"
##	"-0.98"	"0"	"0.98"	"0.995"
##	"-0.98"	"0"	"0.98"	"0.91"
##	"-0.981"	"1"	"2.22"	"1.244"
##	"-0.982"	"2"	"3.95"	"1.987"
##	"-0.982"	"1"	"2.48"	"1.507"
##	"-0.984"	"0"	"1.05"	"1.067"

##	"-0.984"	"0"	"1.08"	"1.098"
##	"-0.985"	"6"	"8.53"	"2.568"
##	"-0.986"	"0"	"1.15"	"1.167"
##	"-0.986"	"20"	"24.87"	"4.941"
##	"-0.986"	"1"	"2.37"	"1.39"
##	"-0.986"	"6"	"8.78"	"2.82"
##	"-0.987"	"1"	"2.38"	"1.398"
##	"-0.988"	"8"	"11.1"	"3.138"
##	"-0.989"	"0"	"1.06"	"1.071"
##	"-0.99"	"0"	"0.99"	"0.859"
##	"-0.99"	"0"	"0.99"	"1"
##	"-0.99"	"0"	"0.99"	"0.969"
##	"-0.99"	"0"	"0.99"	"0.98"
##	"-0.99"	"0"	"0.99"	"0.959"
##	"-0.99"	"12"	"15.97"	"4.011"
##	"-0.991"	"3"	"5.29"	"2.311"
##	"-0.992"	"0"	"1.16"	"1.17"
##	"-0.992"	"33"	"40.09"	"7.148"
##	"-0.992"	"5"	"7.55"	"2.572"
##	"-0.993"	"1"	"2.51"	"1.521"
##	"-0.993"	"0"	"1.05"	"1.058"
##	"-0.996"	"0"	"1.19"	"1.195"
##	"-0.996"	"0"	"1.13"	"1.134"
##	"-0.997"	"34"	"40.78"	"6.801"
##	"-0.997"	"2"	"4.22"	"2.227"
##	"-0.998"	"0"	"1.12"	"1.122"
##	"-0.998"	"0"	"1.12"	"1.122"
##	"-0.999"	"8"	"11.44"	"3.445"
##	"-0.999"	"1"	"2.63"	"1.631"
##	"-1"	"0"	"1"	"0.943"
##	"-1"	"0"	"1.23"	"1.23"
##	"-1"	"0"	"1"	"0.985"
##	"-1"	"0"	"1"	"0.985"
##	"-1"	"0"	"1"	"0.985"
##	"-1"	"0"	"1"	"0.985"
##	"-1"	"0"	"1"	"0.985"
##	"-1"	"0"	"1"	"0.985"
##	"-1"	"0"	"1"	"0.932"
##	"-1"	"0"	"1"	"0.985"
##	"-1"	"1"	"2.48"	"1.48"
##	"-1.001"	"6"	"8.42"	"2.417"
##	"-1.001"	"0"	"1.03"	"1.029"
##	"-1.002"	"0"	"1.05"	"1.048"
##	"-1.002"	"0"	"1.05"	"1.048"
##	"-1.002"	"0"	"1.05"	"1.048"
##	"-1.003"	"1"	"2.89"	"1.885"
##	"-1.004"	"16"	"20.88"	"4.862"
##	"-1.004"	"17"	"21.74"	"4.72"
##	"-1.004"	"2"	"3.59"	"1.583"
##	"-1.005"	"139"	"150.91"	"11.849"
##	"-1.005"	"1"	"2.83"	"1.821"
##	"-1.005"	"2"	"4.04"	"2.03"
##	"-1.005"	"1"	"2.46"	"1.452"
##	"-1.006"	"1"	"2.36"	"1.352"

##	"-1.006"	"6"	"8.99"	"2.973"
##	"-1.006"	"0"	"1.09"	"1.083"
##	"-1.006"	"75"	"83.05"	"8.004"
##	"-1.007"	"1"	"2.86"	"1.848"
##	"-1.007"	"1"	"2.41"	"1.401"
##	"-1.007"	"1"	"2.41"	"1.401"
##	"-1.007"	"1"	"2.41"	"1.401"
##	"-1.008"	"1"	"2.88"	"1.866"
##	"-1.008"	"1"	"2.88"	"1.866"
##	"-1.008"	"1"	"2.88"	"1.866"
##	"-1.008"	"7"	"10.28"	"3.254"
##	"-1.008"	"10"	"14.2"	"4.168"
##	"-1.009"	"1"	"2.84"	"1.824"
##	"-1.009"	"1"	"2.84"	"1.824"
##	"-1.009"	"5"	"7.83"	"2.804"
##	"-1.01"	"0"	"1.19"	"1.178"
##	"-1.01"	"0"	"1.01"	"0.859"
##	"-1.01"	"0"	"1.01"	"1"
##	"-1.01"	"0"	"1.14"	"1.128"
##	"-1.011"	"7"	"10.28"	"3.245"
##	"-1.012"	"11"	"15.41"	"4.356"
##	"-1.013"	"0"	"1.17"	"1.155"
##	"-1.013"	"1"	"2.92"	"1.895"
##	"-1.013"	"0"	"1.07"	"1.057"
##	"-1.014"	"5"	"7.42"	"2.388"
##	"-1.015"	"1"	"2.84"	"1.813"
##	"-1.015"	"0"	"1.12"	"1.104"
##	"-1.015"	"0"	"1.12"	"1.104"
##	"-1.015"	"0"	"1.21"	"1.192"
##	"-1.016"	"1"	"3.21"	"2.176"
##	"-1.016"	"7"	"10.18"	"3.131"
##	"-1.016"	"7"	"10.18"	"3.131"
##	"-1.016"	"9"	"12.8"	"3.739"
##	"-1.016"	"7"	"10.23"	"3.178"
##	"-1.017"	"2"	"4.34"	"2.302"
##	"-1.017"	"1"	"2.79"	"1.76"
##	"-1.018"	"2"	"3.91"	"1.875"
##	"-1.018"	"0"	"1.08"	"1.061"
##	"-1.018"	"1"	"2.64"	"1.611"
##	"-1.018"	"1"	"2.64"	"1.611"
##	"-1.018"	"1"	"2.64"	"1.611"
##	"-1.018"	"0"	"1.08"	"1.061"
##	"-1.018"	"1"	"2.64"	"1.611"
##	"-1.018"	"1"	"2.64"	"1.611"
##	"-1.018"	"0"	"1.08"	"1.061"
##	"-1.019"	"1"	"2.86"	"1.826"
##	"-1.02"	"0"	"1.02"	"0.943"
##	"-1.02"	"0"	"1.02"	"0.985"
##	"-1.02"	"0"	"1.02"	"0.995"
##	"-1.02"	"0"	"1.02"	"0.985"
##	"-1.02"	"0"	"1.24"	"1.215"
##	"-1.02"	"0"	"1.03"	"1.01"
##	"-1.02"	"0"	"1.03"	"1.01"
##	"-1.02"	"0"	"1.02"	"0.974"

##	"-1.02"	"0"	"1.02"	"0.864"
##	"-1.02"	"0"	"1.03"	"1.01"
##	"-1.02"	"1"	"2.57"	"1.539"
##	"-1.021"	"0"	"1.1"	"1.078"
##	"-1.021"	"0"	"1.1"	"1.078"
##	"-1.021"	"0"	"1.1"	"1.078"
##	"-1.021"	"15"	"19.43"	"4.34"
##	"-1.022"	"0"	"1.16"	"1.135"
##	"-1.024"	"5"	"8.11"	"3.038"
##	"-1.024"	"0"	"1.15"	"1.123"
##	"-1.024"	"1"	"2.53"	"1.494"
##	"-1.025"	"0"	"1.04"	"1.014"
##	"-1.027"	"6"	"9.01"	"2.932"
##	"-1.028"	"4"	"6.24"	"2.179"
##	"-1.028"	"17"	"21.76"	"4.63"
##	"-1.028"	"6"	"8.86"	"2.782"
##	"-1.029"	"0"	"1.17"	"1.138"
##	"-1.03"	"0"	"1.03"	"0.989"
##	"-1.03"	"0"	"1.1"	"1.068"
##	"-1.03"	"1"	"2.46"	"1.417"
##	"-1.03"	"0"	"1.03"	"0.989"
##	"-1.03"	"0"	"1.03"	"0.979"
##	"-1.031"	"0"	"1.05"	"1.019"
##	"-1.031"	"19"	"23.63"	"4.492"
##	"-1.031"	"0"	"1.05"	"1.019"
##	"-1.031"	"1"	"2.83"	"1.776"
##	"-1.031"	"1"	"2.54"	"1.494"
##	"-1.031"	"0"	"1.05"	"1.019"
##	"-1.033"	"0"	"1.15"	"1.114"
##	"-1.033"	"7"	"9.79"	"2.702"
##	"-1.033"	"0"	"1.15"	"1.114"
##	"-1.033"	"0"	"1.19"	"1.152"
##	"-1.035"	"16"	"20.63"	"4.474"
##	"-1.035"	"0"	"1.11"	"1.072"
##	"-1.035"	"0"	"1.23"	"1.188"
##	"-1.035"	"9"	"12.44"	"3.325"
##	"-1.036"	"3"	"5.42"	"2.336"
##	"-1.037"	"0"	"1.17"	"1.129"
##	"-1.038"	"35"	"43.05"	"7.754"
##	"-1.038"	"0"	"1.21"	"1.166"
##	"-1.038"	"0"	"1.13"	"1.089"
##	"-1.038"	"2"	"4.1"	"2.023"
##	"-1.038"	"0"	"1.13"	"1.089"
##	"-1.04"	"2"	"3.96"	"1.885"
##	"-1.04"	"0"	"1.04"	"0.898"
##	"-1.04"	"39"	"45.49"	"6.243"
##	"-1.04"	"0"	"1.04"	"0.942"
##	"-1.04"	"0"	"1.04"	"0.931"
##	"-1.04"	"3"	"5.19"	"2.107"
##	"-1.04"	"2"	"4.22"	"2.135"
##	"-1.041"	"0"	"1.07"	"1.027"
##	"-1.041"	"0"	"1.07"	"1.027"
##	"-1.041"	"0"	"1.07"	"1.027"
##	"-1.041"	"0"	"1.07"	"1.027"

##	"-1.041"	"0"	"1.07"	"1.027"
##	"-1.041"	"0"	"1.07"	"1.027"
##	"-1.041"	"0"	"1.15"	"1.104"
##	"-1.041"	"0"	"1.07"	"1.027"
##	"-1.041"	"0"	"1.19"	"1.143"
##	"-1.042"	"1"	"2.71"	"1.641"
##	"-1.045"	"1"	"2.87"	"1.79"
##	"-1.046"	"5"	"7.86"	"2.734"
##	"-1.047"	"0"	"1.13"	"1.079"
##	"-1.047"	"7"	"10.49"	"3.335"
##	"-1.048"	"0"	"1.1"	"1.049"
##	"-1.048"	"0"	"1.1"	"1.049"
##	"-1.048"	"1"	"2.55"	"1.48"
##	"-1.049"	"0"	"1.44"	"1.373"
##	"-1.05"	"0"	"1.05"	"0.968"
##	"-1.05"	"0"	"1.05"	"0.968"
##	"-1.05"	"0"	"1.05"	"0.968"
##	"-1.05"	"35"	"41.19"	"5.894"
##	"-1.05"	"17"	"21.65"	"4.43"
##	"-1.05"	"0"	"1.05"	"0.968"
##	"-1.05"	"0"	"1.05"	"0.989"
##	"-1.05"	"1"	"2.54"	"1.466"
##	"-1.05"	"0"	"1.05"	"0.968"
##	"-1.051"	"21"	"26.46"	"5.196"
##	"-1.051"	"16"	"20.55"	"4.328"
##	"-1.051"	"1"	"2.49"	"1.418"
##	"-1.051"	"1"	"2.67"	"1.589"
##	"-1.051"	"16"	"20.94"	"4.699"
##	"-1.051"	"0"	"1.23"	"1.171"
##	"-1.052"	"1"	"2.69"	"1.606"
##	"-1.052"	"1"	"2.69"	"1.606"
##	"-1.052"	"1"	"2.69"	"1.606"
##	"-1.052"	"16"	"20.5"	"4.279"
##	"-1.053"	"1"	"2.68"	"1.595"
##	"-1.054"	"1"	"2.85"	"1.755"
##	"-1.054"	"10"	"13.57"	"3.388"
##	"-1.055"	"0"	"1.26"	"1.194"
##	"-1.055"	"0"	"1.26"	"1.194"
##	"-1.055"	"3"	"5.13"	"2.018"
##	"-1.055"	"0"	"1.26"	"1.194"
##	"-1.055"	"14"	"17.97"	"3.762"
##	"-1.055"	"3"	"5.13"	"2.018"
##	"-1.055"	"3"	"5.13"	"2.018"
##	"-1.056"	"1"	"2.73"	"1.638"
##	"-1.056"	"52"	"59.72"	"7.313"
##	"-1.057"	"4"	"7.08"	"2.915"
##	"-1.057"	"0"	"1.06"	"1.003"
##	"-1.057"	"0"	"1.24"	"1.173"
##	"-1.058"	"8"	"11.46"	"3.27"
##	"-1.058"	"5"	"7.7"	"2.552"
##	"-1.059"	"7"	"10.11"	"2.937"
##	"-1.059"	"7"	"10.18"	"3.003"
##	"-1.06"	"0"	"1.06"	"0.973"
##	"-1.06"	"0"	"1.06"	"0.983"

##	"-1.06"	"0"	"1.06"	"0.983"
##	"-1.06"	"0"	"1.06"	"0.993"
##	"-1.06"	"0"	"1.06"	"0.973"
##	"-1.06"	"0"	"1.06"	"0.919"
##	"-1.06"	"0"	"1.06"	"0.93"
##	"-1.06"	"0"	"1.06"	"0.93"
##	"-1.062"	"0"	"1.26"	"1.186"
##	"-1.062"	"6"	"9.25"	"3.06"
##	"-1.062"	"2"	"4.29"	"2.157"
##	"-1.063"	"1"	"2.74"	"1.637"
##	"-1.063"	"1"	"3.08"	"1.958"
##	"-1.063"	"5"	"7.83"	"2.663"
##	"-1.064"	"4"	"6.59"	"2.433"
##	"-1.064"	"0"	"1.25"	"1.175"
##	"-1.064"	"0"	"1.47"	"1.381"
##	"-1.064"	"0"	"1.25"	"1.175"
##	"-1.064"	"0"	"1.25"	"1.175"
##	"-1.065"	"0"	"1.24"	"1.164"
##	"-1.066"	"3"	"5.36"	"2.213"
##	"-1.066"	"0"	"1.34"	"1.257"
##	"-1.066"	"0"	"1.34"	"1.257"
##	"-1.067"	"0"	"1.38"	"1.293"
##	"-1.067"	"0"	"1.08"	"1.012"
##	"-1.068"	"136"	"148.56"	"11.761"
##	"-1.068"	"0"	"1.1"	"1.03"
##	"-1.068"	"3"	"5.38"	"2.228"
##	"-1.068"	"0"	"1.22"	"1.142"
##	"-1.068"	"62"	"70.35"	"7.82"
##	"-1.068"	"0"	"1.28"	"1.198"
##	"-1.068"	"7"	"10.65"	"3.418"
##	"-1.07"	"0"	"1.07"	"0.987"
##	"-1.07"	"1"	"2.8"	"1.682"
##	"-1.07"	"15"	"19.95"	"4.626"
##	"-1.07"	"0"	"1.07"	"0.977"
##	"-1.07"	"0"	"1.07"	"0.935"
##	"-1.07"	"0"	"1.21"	"1.131"
##	"-1.07"	"0"	"1.07"	"0.967"
##	"-1.07"	"0"	"1.07"	"0.856"
##	"-1.07"	"6"	"9.22"	"3.01"
##	"-1.07"	"0"	"1.07"	"0.977"
##	"-1.07"	"0"	"1.07"	"0.987"
##	"-1.07"	"0"	"1.07"	"0.967"
##	"-1.07"	"0"	"1.07"	"0.987"
##	"-1.071"	"6"	"9.34"	"3.118"
##	"-1.072"	"1"	"2.99"	"1.856"
##	"-1.072"	"6"	"8.65"	"2.472"
##	"-1.072"	"10"	"13.67"	"3.423"
##	"-1.072"	"1"	"2.7"	"1.586"
##	"-1.074"	"1"	"2.64"	"1.528"
##	"-1.074"	"0"	"1.31"	"1.22"
##	"-1.075"	"4"	"7.13"	"2.912"
##	"-1.075"	"0"	"1.13"	"1.051"
##	"-1.075"	"2"	"4.38"	"2.215"
##	"-1.075"	"1"	"2.71"	"1.591"

##	"-1.075"	"1"	"2.71"	"1.591"
##	"-1.075"	"0"	"1.13"	"1.051"
##	"-1.077"	"0"	"1.27"	"1.179"
##	"-1.077"	"0"	"1.27"	"1.179"
##	"-1.077"	"0"	"1.27"	"1.179"
##	"-1.077"	"0"	"1.27"	"1.179"
##	"-1.077"	"0"	"1.27"	"1.179"
##	"-1.077"	"0"	"1.27"	"1.179"
##	"-1.078"	"0"	"1.1"	"1.02"
##	"-1.078"	"0"	"1.1"	"1.02"
##	"-1.078"	"0"	"1.26"	"1.169"
##	"-1.078"	"0"	"1.15"	"1.067"
##	"-1.078"	"0"	"1.1"	"1.02"
##	"-1.08"	"2"	"4.19"	"2.029"
##	"-1.08"	"0"	"1.08"	"0.981"
##	"-1.08"	"0"	"1.32"	"1.222"
##	"-1.08"	"0"	"1.12"	"1.037"
##	"-1.08"	"0"	"1.08"	"0.981"
##	"-1.08"	"0"	"1.37"	"1.269"
##	"-1.08"	"0"	"1.08"	"0.981"
##	"-1.081"	"13"	"17.05"	"3.748"
##	"-1.081"	"0"	"1.31"	"1.212"
##	"-1.082"	"1"	"3.07"	"1.914"
##	"-1.083"	"1"	"2.87"	"1.727"
##	"-1.083"	"5"	"7.96"	"2.734"
##	"-1.084"	"0"	"1.09"	"1.006"
##	"-1.085"	"33"	"38.34"	"4.922"
##	"-1.085"	"7"	"10.6"	"3.318"
##	"-1.085"	"1"	"3.04"	"1.88"
##	"-1.085"	"4"	"6.86"	"2.636"
##	"-1.085"	"0"	"1.13"	"1.041"
##	"-1.086"	"0"	"1.67"	"1.538"
##	"-1.086"	"2"	"4.08"	"1.916"
##	"-1.087"	"10"	"13.54"	"3.258"
##	"-1.087"	"2"	"4.3"	"2.115"
##	"-1.087"	"0"	"1.18"	"1.086"
##	"-1.087"	"0"	"1.15"	"1.058"
##	"-1.089"	"0"	"1.31"	"1.203"
##	"-1.09"	"0"	"1.17"	"1.074"
##	"-1.09"	"0"	"1.44"	"1.321"
##	"-1.09"	"0"	"1.12"	"1.028"
##	"-1.09"	"0"	"1.09"	"0.965"
##	"-1.09"	"0"	"1.09"	"0.954"
##	"-1.09"	"0"	"1.44"	"1.321"
##	"-1.091"	"0"	"1.28"	"1.173"
##	"-1.091"	"2"	"4.1"	"1.925"
##	"-1.091"	"4"	"7"	"2.749"
##	"-1.092"	"16"	"20.54"	"4.157"
##	"-1.092"	"3"	"5.14"	"1.959"
##	"-1.092"	"2"	"4.2"	"2.015"
##	"-1.092"	"0"	"1.46"	"1.337"
##	"-1.093"	"0"	"1.27"	"1.162"
##	"-1.093"	"0"	"1.19"	"1.089"
##	"-1.093"	"0"	"1.19"	"1.089"

##	"-1.093"	"0"	"1.19"	"1.089"
##	"-1.094"	"0"	"1.34"	"1.224"
##	"-1.094"	"1"	"2.95"	"1.783"
##	"-1.094"	"0"	"1.34"	"1.224"
##	"-1.095"	"6"	"9.2"	"2.923"
##	"-1.095"	"3"	"5.54"	"2.32"
##	"-1.096"	"0"	"1.13"	"1.031"
##	"-1.096"	"0"	"1.31"	"1.195"
##	"-1.096"	"0"	"1.13"	"1.031"
##	"-1.096"	"0"	"1.25"	"1.14"
##	"-1.097"	"1"	"3.18"	"1.987"
##	"-1.098"	"29"	"35.38"	"5.808"
##	"-1.099"	"1"	"2.46"	"1.329"
##	"-1.099"	"0"	"1.17"	"1.064"
##	"-1.099"	"64"	"73.27"	"8.436"
##	"-1.099"	"2"	"4.23"	"2.029"
##	"-1.099"	"0"	"1.17"	"1.064"
##	"-1.1"	"0"	"1.1"	"0.959"
##	"-1.1"	"0"	"1.1"	"0.835"
##	"-1.1"	"0"	"1.1"	"0.835"
##	"-1.1"	"0"	"1.1"	"0.893"
##	"-1.1"	"0"	"1.1"	"0.959"
##	"-1.1"	"0"	"1.1"	"0.959"
##	"-1.1"	"0"	"1.1"	"1"
##	"-1.101"	"4"	"7.15"	"2.862"
##	"-1.101"	"0"	"1.36"	"1.235"
##	"-1.101"	"1"	"2.89"	"1.717"
##	"-1.102"	"16"	"20.56"	"4.14"
##	"-1.103"	"0"	"1.43"	"1.297"
##	"-1.103"	"0"	"1.26"	"1.143"
##	"-1.103"	"0"	"1.43"	"1.297"
##	"-1.103"	"134"	"147.23"	"11.992"
##	"-1.104"	"4"	"6.73"	"2.474"
##	"-1.105"	"2"	"4.27"	"2.054"
##	"-1.106"	"0"	"1.18"	"1.067"
##	"-1.106"	"2"	"4.06"	"1.863"
##	"-1.106"	"0"	"1.13"	"1.022"
##	"-1.106"	"0"	"1.18"	"1.067"
##	"-1.106"	"0"	"1.13"	"1.022"
##	"-1.106"	"0"	"1.18"	"1.067"
##	"-1.106"	"1"	"2.71"	"1.546"
##	"-1.106"	"0"	"1.18"	"1.067"
##	"-1.106"	"0"	"1.18"	"1.067"
##	"-1.107"	"1"	"3.21"	"1.996"
##	"-1.107"	"1"	"2.56"	"1.409"
##	"-1.108"	"1"	"3.12"	"1.914"
##	"-1.108"	"32"	"38.23"	"5.624"
##	"-1.108"	"1"	"2.79"	"1.616"
##	"-1.108"	"1"	"2.79"	"1.616"
##	"-1.108"	"21"	"26.58"	"5.038"
##	"-1.109"	"0"	"1.17"	"1.055"
##	"-1.109"	"2"	"4.48"	"2.236"
##	"-1.109"	"0"	"1.57"	"1.416"
##	"-1.109"	"107"	"120.2"	"11.907"

##	"-1.109"	"0"	"1.5"	"1.352"
##	"-1.109"	"2"	"4.81"	"2.533"
##	"-1.11"	"0"	"1.11"	"0.973"
##	"-1.11"	"0"	"1.11"	"0.973"
##	"-1.111"	"39"	"45.51"	"5.858"
##	"-1.111"	"6"	"9.27"	"2.943"
##	"-1.111"	"21"	"26.01"	"4.509"
##	"-1.112"	"0"	"1.19"	"1.07"
##	"-1.113"	"8"	"11.37"	"3.027"
##	"-1.113"	"12"	"16.32"	"3.882"
##	"-1.113"	"2"	"4.68"	"2.407"
##	"-1.113"	"2"	"4.11"	"1.896"
##	"-1.114"	"0"	"1.16"	"1.042"
##	"-1.114"	"3"	"5.49"	"2.236"
##	"-1.114"	"1"	"3.08"	"1.868"
##	"-1.115"	"0"	"1.38"	"1.237"
##	"-1.115"	"100"	"113.25"	"11.878"
##	"-1.115"	"0"	"1.38"	"1.237"
##	"-1.115"	"0"	"1.38"	"1.237"
##	"-1.115"	"0"	"1.21"	"1.085"
##	"-1.115"	"0"	"1.38"	"1.237"
##	"-1.115"	"8"	"11.66"	"3.282"
##	"-1.116"	"0"	"1.24"	"1.111"
##	"-1.116"	"1"	"2.79"	"1.604"
##	"-1.116"	"0"	"1.37"	"1.228"
##	"-1.116"	"1"	"2.79"	"1.604"
##	"-1.116"	"2"	"4.19"	"1.963"
##	"-1.117"	"2"	"4.22"	"1.988"
##	"-1.117"	"18"	"23.2"	"4.654"
##	"-1.118"	"2"	"4.05"	"1.833"
##	"-1.119"	"0"	"1.23"	"1.1"
##	"-1.119"	"166"	"180.69"	"13.127"
##	"-1.12"	"0"	"1.12"	"0.924"
##	"-1.12"	"0"	"1.12"	"0.924"
##	"-1.12"	"0"	"1.12"	"0.924"
##	"-1.12"	"0"	"1.12"	"0.956"
##	"-1.12"	"0"	"1.12"	"0.956"
##	"-1.121"	"10"	"13.83"	"3.417"
##	"-1.121"	"2"	"4.3"	"2.052"
##	"-1.122"	"2"	"4.29"	"2.041"
##	"-1.122"	"2"	"4.29"	"2.041"
##	"-1.123"	"0"	"1.14"	"1.015"
##	"-1.123"	"0"	"1.42"	"1.265"
##	"-1.123"	"0"	"1.42"	"1.265"
##	"-1.124"	"1"	"2.84"	"1.637"
##	"-1.125"	"5"	"7.94"	"2.612"
##	"-1.125"	"1"	"2.83"	"1.627"
##	"-1.125"	"0"	"1.21"	"1.076"
##	"-1.126"	"0"	"1.18"	"1.048"
##	"-1.126"	"0"	"1.18"	"1.048"
##	"-1.126"	"12"	"15.68"	"3.269"
##	"-1.126"	"0"	"1.18"	"1.048"
##	"-1.126"	"0"	"1.18"	"1.048"
##	"-1.127"	"0"	"1.27"	"1.127"

##	"-1.128"	"7"	"10.76"	"3.334"
##	"-1.128"	"2"	"4.33"	"2.065"
##	"-1.129"	"0"	"1.31"	"1.161"
##	"-1.13"	"0"	"1.13"	"0.939"
##	"-1.13"	"0"	"1.13"	"0.971"
##	"-1.13"	"0"	"1.13"	"0.95"
##	"-1.13"	"0"	"1.62"	"1.434"
##	"-1.13"	"0"	"1.13"	"0.95"
##	"-1.13"	"0"	"1.3"	"1.15"
##	"-1.13"	"0"	"1.13"	"0.939"
##	"-1.13"	"0"	"1.13"	"0.939"
##	"-1.13"	"0"	"1.13"	"0.939"
##	"-1.133"	"1"	"2.88"	"1.659"
##	"-1.133"	"27"	"32.71"	"5.04"
##	"-1.134"	"0"	"1.14"	"1.005"
##	"-1.135"	"6"	"9.04"	"2.678"
##	"-1.135"	"0"	"1.21"	"1.066"
##	"-1.135"	"0"	"1.21"	"1.066"
##	"-1.135"	"0"	"1.5"	"1.322"
##	"-1.135"	"0"	"1.21"	"1.066"
##	"-1.135"	"1"	"2.91"	"1.682"
##	"-1.135"	"0"	"1.21"	"1.066"
##	"-1.137"	"0"	"1.43"	"1.257"
##	"-1.137"	"2"	"4.16"	"1.9"
##	"-1.137"	"0"	"1.4"	"1.231"
##	"-1.137"	"0"	"1.4"	"1.231"
##	"-1.137"	"0"	"1.41"	"1.24"
##	"-1.138"	"0"	"1.2"	"1.054"
##	"-1.138"	"15"	"20.04"	"4.429"
##	"-1.138"	"0"	"1.23"	"1.081"
##	"-1.139"	"1"	"3.06"	"1.808"
##	"-1.14"	"0"	"1.15"	"1.009"
##	"-1.14"	"1"	"2.81"	"1.587"
##	"-1.141"	"2"	"4.61"	"2.287"
##	"-1.141"	"1"	"2.73"	"1.517"
##	"-1.141"	"0"	"1.34"	"1.174"
##	"-1.141"	"1"	"2.62"	"1.42"
##	"-1.141"	"0"	"1.34"	"1.174"
##	"-1.141"	"1"	"2.73"	"1.517"
##	"-1.141"	"2"	"4.25"	"1.971"
##	"-1.141"	"2"	"4.25"	"1.971"
##	"-1.141"	"4"	"6.86"	"2.507"
##	"-1.141"	"1"	"2.98"	"1.735"
##	"-1.142"	"1"	"2.96"	"1.717"
##	"-1.142"	"1"	"2.77"	"1.55"
##	"-1.143"	"0"	"1.28"	"1.12"
##	"-1.143"	"0"	"1.33"	"1.164"
##	"-1.144"	"0"	"1.24"	"1.084"
##	"-1.145"	"6"	"9.39"	"2.961"
##	"-1.145"	"1"	"2.78"	"1.554"
##	"-1.145"	"1"	"2.58"	"1.379"
##	"-1.145"	"0"	"1.41"	"1.232"
##	"-1.145"	"0"	"1.84"	"1.606"
##	"-1.145"	"3"	"5.99"	"2.611"

##	"-1.145"	"0"	"1.21"	"1.057"
##	"-1.145"	"0"	"1.21"	"1.057"
##	"-1.146"	"49"	"57.15"	"7.111"
##	"-1.146"	"1"	"3.19"	"1.911"
##	"-1.146"	"0"	"1.31"	"1.143"
##	"-1.146"	"1"	"2.38"	"1.204"
##	"-1.147"	"1"	"2.83"	"1.596"
##	"-1.147"	"0"	"1.49"	"1.299"
##	"-1.147"	"0"	"1.48"	"1.291"
##	"-1.147"	"0"	"1.49"	"1.299"
##	"-1.148"	"1"	"2.91"	"1.664"
##	"-1.148"	"0"	"1.26"	"1.097"
##	"-1.15"	"0"	"1.15"	"0.957"
##	"-1.15"	"0"	"1.15"	"0.989"
##	"-1.15"	"3"	"5.58"	"2.244"
##	"-1.151"	"0"	"1.22"	"1.06"
##	"-1.151"	"1"	"2.87"	"1.625"
##	"-1.151"	"16"	"21.12"	"4.448"
##	"-1.151"	"1"	"2.73"	"1.503"
##	"-1.151"	"21"	"27.01"	"5.219"
##	"-1.153"	"0"	"1.46"	"1.267"
##	"-1.153"	"0"	"1.46"	"1.267"
##	"-1.153"	"1"	"2.72"	"1.491"
##	"-1.153"	"0"	"1.47"	"1.275"
##	"-1.153"	"2"	"4.51"	"2.177"
##	"-1.154"	"2"	"4.48"	"2.148"
##	"-1.154"	"1"	"2.74"	"1.508"
##	"-1.155"	"0"	"1.31"	"1.134"
##	"-1.155"	"0"	"1.31"	"1.134"
##	"-1.155"	"0"	"1.37"	"1.186"
##	"-1.155"	"0"	"1.21"	"1.047"
##	"-1.156"	"1"	"2.83"	"1.583"
##	"-1.157"	"0"	"1.35"	"1.167"
##	"-1.158"	"59"	"68.83"	"8.49"
##	"-1.158"	"0"	"1.23"	"1.062"
##	"-1.158"	"0"	"1.23"	"1.062"
##	"-1.158"	"0"	"1.23"	"1.062"
##	"-1.158"	"0"	"1.23"	"1.062"
##	"-1.158"	"0"	"1.23"	"1.062"
##	"-1.158"	"0"	"1.23"	"1.062"
##	"-1.158"	"0"	"1.23"	"1.062"
##	"-1.158"	"0"	"1.18"	"1.019"
##	"-1.158"	"0"	"1.23"	"1.062"
##	"-1.158"	"4"	"6.53"	"2.186"
##	"-1.159"	"0"	"1.29"	"1.113"
##	"-1.16"	"0"	"1.33"	"1.146"
##	"-1.16"	"0"	"1.43"	"1.233"
##	"-1.16"	"0"	"1.45"	"1.25"
##	"-1.16"	"0"	"1.43"	"1.233"
##	"-1.161"	"0"	"1.48"	"1.275"
##	"-1.161"	"1"	"2.97"	"1.696"
##	"-1.161"	"1"	"2.75"	"1.507"
##	"-1.162"	"0"	"1.5"	"1.291"
##	"-1.162"	"0"	"1.28"	"1.102"

##	"-1.162"	"336"	"363.73"	"23.857"
##	"-1.163"	"1"	"2.88"	"1.616"
##	"-1.163"	"7"	"10.68"	"3.165"
##	"-1.164"	"0"	"1.19"	"1.022"
##	"-1.165"	"0"	"1.27"	"1.09"
##	"-1.165"	"7"	"10.86"	"3.312"
##	"-1.166"	"0"	"1.54"	"1.321"
##	"-1.166"	"0"	"1.21"	"1.038"
##	"-1.166"	"0"	"1.21"	"1.038"
##	"-1.166"	"0"	"1.21"	"1.038"
##	"-1.166"	"0"	"1.21"	"1.038"
##	"-1.167"	"37"	"44.65"	"6.557"
##	"-1.167"	"26"	"32.08"	"5.21"
##	"-1.167"	"1"	"3.67"	"2.288"
##	"-1.167"	"0"	"1.6"	"1.371"
##	"-1.168"	"0"	"1.41"	"1.207"
##	"-1.168"	"33"	"40.22"	"6.182"
##	"-1.168"	"0"	"1.43"	"1.225"
##	"-1.169"	"0"	"1.29"	"1.104"
##	"-1.169"	"1"	"2.97"	"1.684"
##	"-1.169"	"1"	"3.49"	"2.13"
##	"-1.17"	"0"	"1.17"	"0.888"
##	"-1.17"	"3"	"5.93"	"2.504"
##	"-1.17"	"42"	"50.35"	"7.138"
##	"-1.17"	"1"	"2.83"	"1.564"
##	"-1.17"	"0"	"1.18"	"1.009"
##	"-1.17"	"0"	"1.18"	"1.009"
##	"-1.17"	"0"	"1.18"	"1.009"
##	"-1.171"	"0"	"1.25"	"1.067"
##	"-1.171"	"0"	"1.25"	"1.067"
##	"-1.171"	"0"	"1.25"	"1.067"
##	"-1.172"	"0"	"1.71"	"1.458"
##	"-1.172"	"4"	"7.41"	"2.91"
##	"-1.172"	"1"	"3.05"	"1.749"
##	"-1.173"	"0"	"1.69"	"1.44"
##	"-1.173"	"3"	"5.86"	"2.437"
##	"-1.173"	"22"	"27.82"	"4.963"
##	"-1.173"	"1"	"2.92"	"1.637"
##	"-1.173"	"0"	"1.22"	"1.04"
##	"-1.174"	"2"	"4.81"	"2.394"
##	"-1.176"	"1"	"3.28"	"1.939"
##	"-1.176"	"1"	"3.28"	"1.939"
##	"-1.176"	"1"	"3.28"	"1.939"
##	"-1.176"	"1"	"3.28"	"1.939"
##	"-1.176"	"1"	"3.28"	"1.939"
##	"-1.178"	"7"	"10.62"	"3.074"
##	"-1.179"	"0"	"1.23"	"1.043"
##	"-1.18"	"10"	"14.7"	"3.984"
##	"-1.181"	"1"	"2.99"	"1.685"
##	"-1.181"	"3"	"5.66"	"2.253"
##	"-1.182"	"0"	"1.2"	"1.015"
##	"-1.183"	"0"	"1.46"	"1.234"
##	"-1.183"	"0"	"1.31"	"1.107"
##	"-1.183"	"0"	"1.31"	"1.107"

##	"-1.183"	"0"	"1.47"	"1.243"
##	"-1.183"	"0"	"1.31"	"1.107"
##	"-1.183"	"0"	"1.47"	"1.243"
##	"-1.183"	"0"	"1.75"	"1.48"
##	"-1.185"	"1"	"2.83"	"1.544"
##	"-1.185"	"14"	"18.61"	"3.89"
##	"-1.186"	"2"	"4.37"	"1.998"
##	"-1.186"	"0"	"1.3"	"1.096"
##	"-1.186"	"2"	"4.71"	"2.284"
##	"-1.186"	"0"	"1.3"	"1.096"
##	"-1.186"	"0"	"1.24"	"1.046"
##	"-1.187"	"2"	"5.03"	"2.552"
##	"-1.187"	"0"	"1.39"	"1.171"
##	"-1.187"	"0"	"1.7"	"1.432"
##	"-1.188"	"1"	"3.16"	"1.819"
##	"-1.188"	"0"	"1.19"	"1.002"
##	"-1.188"	"8"	"12.06"	"3.417"
##	"-1.189"	"0"	"1.81"	"1.522"
##	"-1.189"	"0"	"1.81"	"1.522"
##	"-1.189"	"1"	"3.02"	"1.7"
##	"-1.19"	"0"	"1.32"	"1.109"
##	"-1.19"	"0"	"1.37"	"1.152"
##	"-1.19"	"0"	"1.32"	"1.109"
##	"-1.19"	"2"	"4.29"	"1.924"
##	"-1.191"	"30"	"35.87"	"4.929"
##	"-1.191"	"0"	"1.49"	"1.251"
##	"-1.191"	"0"	"1.45"	"1.218"
##	"-1.191"	"0"	"1.69"	"1.419"
##	"-1.191"	"3"	"5.3"	"1.931"
##	"-1.192"	"0"	"1.51"	"1.267"
##	"-1.192"	"0"	"1.51"	"1.267"
##	"-1.192"	"0"	"1.51"	"1.267"
##	"-1.192"	"0"	"1.51"	"1.267"
##	"-1.193"	"12"	"17.08"	"4.259"
##	"-1.193"	"1"	"2.9"	"1.592"
##	"-1.193"	"6"	"9.12"	"2.614"
##	"-1.193"	"0"	"1.42"	"1.191"
##	"-1.193"	"6"	"9.12"	"2.614"
##	"-1.195"	"0"	"1.83"	"1.531"
##	"-1.195"	"9"	"13.18"	"3.497"
##	"-1.196"	"0"	"1.3"	"1.087"
##	"-1.196"	"33"	"41.09"	"6.765"
##	"-1.197"	"10"	"14.22"	"3.526"
##	"-1.197"	"0"	"1.24"	"1.036"
##	"-1.198"	"0"	"1.63"	"1.361"
##	"-1.199"	"0"	"1.26"	"1.05"
##	"-1.2"	"0"	"1.86"	"1.551"
##	"-1.2"	"0"	"1.53"	"1.275"
##	"-1.2"	"15"	"20.49"	"4.574"
##	"-1.201"	"61"	"69.71"	"7.252"
##	"-1.201"	"284"	"310.7"	"22.232"
##	"-1.202"	"1"	"3.21"	"1.838"
##	"-1.202"	"1"	"3.15"	"1.789"
##	"-1.202"	"2"	"4.68"	"2.229"

##	"-1.202"	"1"	"2.95"	"1.623"
##	"-1.203"	"1"	"2.84"	"1.529"
##	"-1.203"	"0"	"1.4"	"1.163"
##	"-1.205"	"3"	"5.65"	"2.199"
##	"-1.205"	"0"	"1.92"	"1.593"
##	"-1.206"	"1"	"3.16"	"1.791"
##	"-1.206"	"1"	"2.91"	"1.583"
##	"-1.206"	"0"	"1.64"	"1.36"
##	"-1.206"	"0"	"1.3"	"1.078"
##	"-1.206"	"5"	"8.18"	"2.638"
##	"-1.206"	"0"	"1.59"	"1.319"
##	"-1.206"	"0"	"1.59"	"1.319"
##	"-1.206"	"0"	"1.59"	"1.319"
##	"-1.207"	"0"	"1.48"	"1.227"
##	"-1.207"	"13"	"17.45"	"3.688"
##	"-1.207"	"0"	"1.46"	"1.21"
##	"-1.207"	"1"	"2.99"	"1.648"
##	"-1.207"	"6"	"9.57"	"2.958"
##	"-1.208"	"1"	"2.76"	"1.457"
##	"-1.208"	"20"	"25.22"	"4.32"
##	"-1.209"	"3"	"5.76"	"2.284"
##	"-1.209"	"101"	"113.01"	"9.938"
##	"-1.21"	"0"	"1.42"	"1.174"
##	"-1.21"	"0"	"1.32"	"1.091"
##	"-1.21"	"0"	"1.62"	"1.339"
##	"-1.21"	"0"	"1.62"	"1.339"
##	"-1.21"	"0"	"1.42"	"1.174"
##	"-1.211"	"2"	"5.14"	"2.594"
##	"-1.211"	"0"	"1.26"	"1.041"
##	"-1.211"	"0"	"1.26"	"1.041"
##	"-1.211"	"106"	"117.01"	"9.093"
##	"-1.211"	"0"	"1.26"	"1.041"
##	"-1.211"	"3"	"6.48"	"2.873"
##	"-1.212"	"0"	"1.35"	"1.114"
##	"-1.212"	"0"	"1.35"	"1.114"
##	"-1.214"	"40"	"47.39"	"6.088"
##	"-1.214"	"0"	"1.39"	"1.145"
##	"-1.214"	"1674"	"1731.6"	"47.454"
##	"-1.214"	"23"	"29.83"	"5.625"
##	"-1.214"	"3"	"6.01"	"2.48"
##	"-1.216"	"8"	"12.26"	"3.504"
##	"-1.217"	"1"	"2.62"	"1.332"
##	"-1.217"	"7"	"10.47"	"2.851"
##	"-1.218"	"0"	"1.7"	"1.396"
##	"-1.218"	"0"	"1.7"	"1.396"
##	"-1.219"	"0"	"1.8"	"1.477"
##	"-1.219"	"0"	"1.22"	"1.001"
##	"-1.22"	"0"	"1.64"	"1.345"
##	"-1.22"	"0"	"1.59"	"1.303"
##	"-1.22"	"0"	"1.22"	"0.98"
##	"-1.221"	"0"	"1.6"	"1.31"
##	"-1.221"	"7"	"10.67"	"3.005"
##	"-1.221"	"0"	"1.6"	"1.31"
##	"-1.221"	"0"	"1.29"	"1.057"

##	"-1.221"	"0"	"1.32"	"1.081"
##	"-1.221"	"1"	"3.62"	"2.145"
##	"-1.222"	"2"	"4.56"	"2.095"
##	"-1.222"	"0"	"1.4"	"1.146"
##	"-1.222"	"0"	"1.69"	"1.383"
##	"-1.222"	"0"	"1.69"	"1.383"
##	"-1.222"	"0"	"1.69"	"1.383"
##	"-1.222"	"0"	"1.69"	"1.383"
##	"-1.222"	"33"	"40.29"	"5.963"
##	"-1.223"	"4"	"7.88"	"3.173"
##	"-1.223"	"0"	"1.47"	"1.201"
##	"-1.224"	"0"	"1.46"	"1.193"
##	"-1.224"	"0"	"1.55"	"1.266"
##	"-1.224"	"0"	"1.46"	"1.193"
##	"-1.224"	"0"	"1.46"	"1.193"
##	"-1.225"	"3"	"6.09"	"2.523"
##	"-1.225"	"1"	"3"	"1.633"
##	"-1.225"	"2"	"4.66"	"2.171"
##	"-1.225"	"10"	"14.8"	"3.918"
##	"-1.227"	"0"	"1.25"	"1.019"
##	"-1.227"	"12"	"16.64"	"3.781"
##	"-1.227"	"3"	"5.87"	"2.338"
##	"-1.227"	"34"	"42.58"	"6.995"
##	"-1.227"	"27"	"33.37"	"5.191"
##	"-1.227"	"0"	"1.74"	"1.419"
##	"-1.228"	"1"	"2.85"	"1.507"
##	"-1.228"	"0"	"1.42"	"1.156"
##	"-1.228"	"0"	"1.77"	"1.441"
##	"-1.228"	"2"	"4.49"	"2.028"
##	"-1.228"	"0"	"1.77"	"1.441"
##	"-1.229"	"2"	"4.81"	"2.286"
##	"-1.229"	"52"	"60.56"	"6.965"
##	"-1.23"	"0"	"1.36"	"1.106"
##	"-1.23"	"1"	"3.45"	"1.992"
##	"-1.23"	"0"	"1.84"	"1.496"
##	"-1.23"	"0"	"1.41"	"1.147"
##	"-1.23"	"0"	"1.23"	"0.983"
##	"-1.231"	"2"	"5.02"	"2.454"
##	"-1.231"	"8"	"11.93"	"3.192"
##	"-1.232"	"0"	"1.24"	"1.006"
##	"-1.232"	"118"	"131.51"	"10.966"
##	"-1.232"	"9"	"13.11"	"3.336"
##	"-1.232"	"0"	"1.29"	"1.047"
##	"-1.233"	"0"	"1.35"	"1.095"
##	"-1.233"	"6"	"9.92"	"3.18"
##	"-1.235"	"0"	"1.44"	"1.166"
##	"-1.236"	"0"	"1.34"	"1.085"
##	"-1.236"	"0"	"1.34"	"1.085"
##	"-1.236"	"0"	"1.34"	"1.085"
##	"-1.236"	"0"	"1.86"	"1.504"
##	"-1.237"	"0"	"1.42"	"1.148"
##	"-1.238"	"1"	"3.17"	"1.753"
##	"-1.239"	"0"	"1.51"	"1.219"
##	"-1.239"	"0"	"1.54"	"1.243"

##	"-1.24"	"0"	"1.24"	"0.911"
##	"-1.24"	"0"	"1.24"	"0.996"
##	"-1.24"	"48"	"56.7"	"7.016"
##	"-1.24"	"0"	"1.68"	"1.355"
##	"-1.24"	"0"	"1.48"	"1.193"
##	"-1.24"	"1"	"2.92"	"1.548"
##	"-1.242"	"4"	"7.86"	"3.108"
##	"-1.242"	"2"	"4.14"	"1.723"
##	"-1.242"	"2"	"4.5"	"2.013"
##	"-1.243"	"0"	"1.6"	"1.287"
##	"-1.243"	"0"	"1.29"	"1.038"
##	"-1.243"	"0"	"1.35"	"1.086"
##	"-1.244"	"10"	"14.63"	"3.722"
##	"-1.245"	"1"	"2.79"	"1.438"
##	"-1.247"	"0"	"1.68"	"1.348"
##	"-1.247"	"4"	"6.96"	"2.374"
##	"-1.247"	"0"	"1.42"	"1.139"
##	"-1.247"	"0"	"1.42"	"1.139"
##	"-1.247"	"0"	"1.42"	"1.139"
##	"-1.247"	"1"	"3.49"	"1.997"
##	"-1.248"	"0"	"1.5"	"1.202"
##	"-1.248"	"0"	"1.28"	"1.026"
##	"-1.248"	"0"	"1.55"	"1.242"
##	"-1.248"	"0"	"1.51"	"1.21"
##	"-1.249"	"292"	"315.27"	"18.624"
##	"-1.25"	"0"	"1.3"	"1.04"
##	"-1.25"	"6"	"9.68"	"2.944"
##	"-1.25"	"0"	"1.3"	"1.04"
##	"-1.25"	"1"	"3.25"	"1.8"
##	"-1.25"	"1"	"3.25"	"1.8"
##	"-1.25"	"2"	"4.12"	"1.695"
##	"-1.25"	"1"	"3.12"	"1.695"
##	"-1.251"	"1"	"3.11"	"1.687"
##	"-1.251"	"1"	"3.11"	"1.687"
##	"-1.251"	"0"	"1.4"	"1.119"
##	"-1.251"	"0"	"1.4"	"1.119"
##	"-1.251"	"0"	"1.4"	"1.119"
##	"-1.252"	"2"	"4.83"	"2.261"
##	"-1.252"	"3"	"6.57"	"2.851"
##	"-1.253"	"0"	"1.27"	"1.014"
##	"-1.254"	"37"	"45.92"	"7.113"
##	"-1.255"	"1"	"3.11"	"1.681"
##	"-1.255"	"0"	"1.78"	"1.418"
##	"-1.256"	"14"	"19.54"	"4.409"
##	"-1.256"	"0"	"1.51"	"1.202"
##	"-1.257"	"0"	"1.58"	"1.257"
##	"-1.257"	"4"	"7.67"	"2.92"
##	"-1.257"	"2"	"4.59"	"2.06"
##	"-1.257"	"0"	"1.58"	"1.257"
##	"-1.257"	"3"	"5.9"	"2.307"
##	"-1.257"	"0"	"1.58"	"1.257"
##	"-1.257"	"7"	"11.09"	"3.254"
##	"-1.257"	"0"	"1.7"	"1.352"
##	"-1.257"	"2"	"4.59"	"2.06"

##	"-1.258"	"84"	"95.75"	"9.341"
##	"-1.258"	"0"	"1.66"	"1.32"
##	"-1.258"	"0"	"1.66"	"1.32"
##	"-1.258"	"0"	"1.97"	"1.566"
##	"-1.259"	"20"	"27"	"5.561"
##	"-1.259"	"1"	"3.27"	"1.803"
##	"-1.259"	"1"	"3.27"	"1.803"
##	"-1.259"	"19"	"25.42"	"5.099"
##	"-1.259"	"0"	"1.71"	"1.358"
##	"-1.26"	"0"	"1.62"	"1.285"
##	"-1.261"	"11"	"16.11"	"4.052"
##	"-1.263"	"0"	"1.94"	"1.536"
##	"-1.263"	"0"	"2.18"	"1.726"
##	"-1.263"	"22"	"28.35"	"5.028"
##	"-1.264"	"0"	"1.7"	"1.345"
##	"-1.265"	"0"	"2.1"	"1.661"
##	"-1.265"	"0"	"1.55"	"1.226"
##	"-1.266"	"0"	"1.38"	"1.09"
##	"-1.266"	"0"	"1.8"	"1.421"
##	"-1.266"	"0"	"1.38"	"1.09"
##	"-1.266"	"0"	"1.38"	"1.09"
##	"-1.266"	"6"	"9.77"	"2.978"
##	"-1.267"	"0"	"1.75"	"1.381"
##	"-1.267"	"14"	"19.27"	"4.161"
##	"-1.267"	"109"	"121.81"	"10.113"
##	"-1.268"	"1"	"3.36"	"1.861"
##	"-1.268"	"1"	"3.28"	"1.798"
##	"-1.268"	"1"	"3.36"	"1.861"
##	"-1.268"	"1"	"3.36"	"1.861"
##	"-1.268"	"1"	"3.46"	"1.941"
##	"-1.269"	"0"	"1.37"	"1.079"
##	"-1.269"	"7"	"11.14"	"3.263"
##	"-1.269"	"0"	"1.47"	"1.159"
##	"-1.27"	"0"	"1.27"	"0.962"
##	"-1.27"	"0"	"1.27"	"0.962"
##	"-1.27"	"0"	"1.27"	"0.962"
##	"-1.27"	"0"	"1.27"	"0.962"
##	"-1.27"	"0"	"1.27"	"0.962"
##	"-1.272"	"0"	"1.77"	"1.392"
##	"-1.272"	"0"	"1.77"	"1.392"
##	"-1.273"	"8"	"12.08"	"3.206"
##	"-1.273"	"0"	"1.44"	"1.131"
##	"-1.273"	"1"	"3.43"	"1.908"
##	"-1.273"	"5"	"8.57"	"2.804"
##	"-1.274"	"24"	"30.39"	"5.017"
##	"-1.274"	"0"	"1.75"	"1.373"
##	"-1.274"	"0"	"1.89"	"1.483"
##	"-1.275"	"0"	"1.5"	"1.176"
##	"-1.275"	"0"	"1.5"	"1.176"
##	"-1.275"	"9"	"13.62"	"3.623"
##	"-1.275"	"11"	"16.1"	"3.999"
##	"-1.275"	"0"	"1.72"	"1.349"
##	"-1.275"	"0"	"1.43"	"1.121"
##	"-1.275"	"0"	"1.5"	"1.176"

##	"-1.276"	"0"	"1.35"	"1.058"
##	"-1.276"	"1"	"3.18"	"1.708"
##	"-1.276"	"0"	"1.49"	"1.168"
##	"-1.276"	"0"	"1.49"	"1.168"
##	"-1.276"	"7"	"10.64"	"2.852"
##	"-1.277"	"0"	"1.38"	"1.08"
##	"-1.278"	"0"	"1.82"	"1.424"
##	"-1.279"	"32"	"39.24"	"5.659"
##	"-1.279"	"74"	"83.88"	"7.725"
##	"-1.279"	"0"	"1.74"	"1.36"
##	"-1.28"	"74"	"85.33"	"8.852"
##	"-1.28"	"0"	"2.4"	"1.875"
##	"-1.281"	"1"	"3.38"	"1.857"
##	"-1.282"	"1"	"2.81"	"1.412"
##	"-1.282"	"0"	"1.55"	"1.209"
##	"-1.282"	"0"	"1.53"	"1.193"
##	"-1.283"	"0"	"1.88"	"1.465"
##	"-1.283"	"0"	"1.61"	"1.254"
##	"-1.283"	"0"	"1.6"	"1.247"
##	"-1.285"	"2"	"4.84"	"2.21"
##	"-1.285"	"1"	"3.38"	"1.852"
##	"-1.285"	"6"	"10.29"	"3.337"
##	"-1.286"	"1"	"3.69"	"2.092"
##	"-1.286"	"5"	"9.32"	"3.36"
##	"-1.286"	"0"	"1.8"	"1.4"
##	"-1.286"	"0"	"1.8"	"1.4"
##	"-1.287"	"0"	"1.93"	"1.499"
##	"-1.287"	"1"	"3.25"	"1.749"
##	"-1.287"	"0"	"2.26"	"1.756"
##	"-1.288"	"26"	"32.03"	"4.683"
##	"-1.288"	"0"	"1.71"	"1.328"
##	"-1.289"	"11"	"16.13"	"3.979"
##	"-1.29"	"0"	"1.29"	"0.967"
##	"-1.29"	"0"	"2"	"1.55"
##	"-1.29"	"1"	"3.93"	"2.271"
##	"-1.29"	"4"	"7.75"	"2.907"
##	"-1.29"	"6"	"9.98"	"3.085"
##	"-1.29"	"0"	"1.46"	"1.132"
##	"-1.29"	"0"	"1.46"	"1.132"
##	"-1.291"	"8"	"12.92"	"3.81"
##	"-1.291"	"1"	"3.43"	"1.882"
##	"-1.291"	"0"	"1.57"	"1.217"
##	"-1.291"	"0"	"1.55"	"1.201"
##	"-1.293"	"4"	"7.12"	"2.413"
##	"-1.293"	"2"	"4.67"	"2.065"
##	"-1.293"	"0"	"1.8"	"1.393"
##	"-1.293"	"83"	"96.71"	"10.602"
##	"-1.294"	"15"	"20.24"	"4.048"
##	"-1.296"	"1"	"3.41"	"1.859"
##	"-1.296"	"1"	"3.41"	"1.859"
##	"-1.296"	"2"	"5.28"	"2.531"
##	"-1.296"	"11"	"16.26"	"4.059"
##	"-1.297"	"0"	"1.33"	"1.025"
##	"-1.298"	"79"	"89.92"	"8.413"

##	"-1.299"	"0"	"1.8"	"1.385"
##	"-1.3"	"11"	"15.54"	"3.491"
##	"-1.3"	"0"	"1.46"	"1.123"
##	"-1.3"	"0"	"1.3"	"0.99"
##	"-1.3"	"0"	"1.46"	"1.123"
##	"-1.3"	"0"	"1.46"	"1.123"
##	"-1.3"	"0"	"1.46"	"1.123"
##	"-1.301"	"12"	"17.55"	"4.265"
##	"-1.301"	"0"	"1.62"	"1.245"
##	"-1.301"	"0"	"1.62"	"1.245"
##	"-1.301"	"0"	"1.62"	"1.245"
##	"-1.302"	"8"	"11.93"	"3.019"
##	"-1.303"	"0"	"2.32"	"1.78"
##	"-1.303"	"11"	"16.25"	"4.029"
##	"-1.303"	"2"	"4.37"	"1.818"
##	"-1.304"	"0"	"1.76"	"1.349"
##	"-1.304"	"39"	"47.48"	"6.505"
##	"-1.304"	"17"	"23.55"	"5.022"
##	"-1.304"	"35"	"43.5"	"6.517"
##	"-1.305"	"13"	"18.25"	"4.024"
##	"-1.306"	"86"	"99.74"	"10.521"
##	"-1.306"	"0"	"1.68"	"1.286"
##	"-1.308"	"13"	"18.58"	"4.264"
##	"-1.308"	"18"	"24.28"	"4.801"
##	"-1.309"	"0"	"1.7"	"1.299"
##	"-1.309"	"1"	"3.42"	"1.849"
##	"-1.309"	"0"	"1.62"	"1.237"
##	"-1.31"	"0"	"1.75"	"1.336"
##	"-1.31"	"0"	"1.63"	"1.244"
##	"-1.311"	"0"	"1.89"	"1.442"
##	"-1.311"	"0"	"1.89"	"1.442"
##	"-1.312"	"2"	"4.44"	"1.86"
##	"-1.312"	"9"	"14.7"	"4.345"
##	"-1.312"	"0"	"1.72"	"1.311"
##	"-1.313"	"0"	"1.51"	"1.15"
##	"-1.313"	"0"	"1.51"	"1.15"
##	"-1.314"	"0"	"1.92"	"1.461"
##	"-1.315"	"54"	"64.33"	"7.854"
##	"-1.316"	"0"	"1.78"	"1.353"
##	"-1.316"	"0"	"2.01"	"1.527"
##	"-1.316"	"0"	"1.84"	"1.398"
##	"-1.316"	"42"	"51.26"	"7.035"
##	"-1.316"	"9"	"14.06"	"3.845"
##	"-1.317"	"2"	"4.72"	"2.065"
##	"-1.317"	"0"	"1.7"	"1.291"
##	"-1.317"	"0"	"2.07"	"1.572"
##	"-1.317"	"13"	"18.62"	"4.266"
##	"-1.318"	"6"	"10.51"	"3.422"
##	"-1.318"	"0"	"1.79"	"1.358"
##	"-1.32"	"1"	"3.6"	"1.969"
##	"-1.32"	"0"	"1.32"	"0.994"
##	"-1.321"	"0"	"1.42"	"1.075"
##	"-1.322"	"10"	"14.92"	"3.722"
##	"-1.322"	"0"	"2.04"	"1.543"

##	"-1.322"	"76"	"87.97"	"9.056"
##	"-1.323"	"6"	"10.03"	"3.047"
##	"-1.324"	"1"	"3.1"	"1.586"
##	"-1.327"	"0"	"1.63"	"1.228"
##	"-1.328"	"1"	"3.62"	"1.973"
##	"-1.328"	"0"	"2.19"	"1.65"
##	"-1.328"	"0"	"1.64"	"1.235"
##	"-1.329"	"4"	"7.64"	"2.74"
##	"-1.329"	"0"	"1.54"	"1.158"
##	"-1.329"	"3"	"6.35"	"2.52"
##	"-1.33"	"0"	"1.33"	"0.995"
##	"-1.33"	"0"	"1.34"	"1.007"
##	"-1.332"	"0"	"2.08"	"1.561"
##	"-1.333"	"4"	"7.47"	"2.603"
##	"-1.333"	"1"	"3.69"	"2.019"
##	"-1.333"	"0"	"2.19"	"1.643"
##	"-1.333"	"128"	"144.67"	"12.501"
##	"-1.333"	"81"	"92.74"	"8.806"
##	"-1.333"	"4"	"7.47"	"2.603"
##	"-1.334"	"13"	"18.35"	"4.011"
##	"-1.334"	"1"	"3.6"	"1.949"
##	"-1.335"	"0"	"2.03"	"1.521"
##	"-1.335"	"0"	"1.8"	"1.348"
##	"-1.335"	"20"	"26.57"	"4.922"
##	"-1.335"	"66"	"77.86"	"8.882"
##	"-1.336"	"1"	"3.61"	"1.953"
##	"-1.336"	"0"	"1.38"	"1.033"
##	"-1.336"	"0"	"2"	"1.497"
##	"-1.336"	"0"	"1.41"	"1.055"
##	"-1.336"	"1"	"3.36"	"1.767"
##	"-1.337"	"0"	"2.02"	"1.511"
##	"-1.338"	"14"	"20.12"	"4.575"
##	"-1.338"	"2"	"4.58"	"1.929"
##	"-1.338"	"0"	"1.56"	"1.166"
##	"-1.338"	"4"	"7.52"	"2.63"
##	"-1.339"	"0"	"1.67"	"1.248"
##	"-1.339"	"1"	"3.34"	"1.748"
##	"-1.339"	"1"	"3.34"	"1.748"
##	"-1.339"	"5"	"8.63"	"2.71"
##	"-1.339"	"0"	"1.55"	"1.158"
##	"-1.34"	"61"	"72.24"	"8.388"
##	"-1.34"	"0"	"1.34"	"0.997"
##	"-1.34"	"0"	"1.92"	"1.433"
##	"-1.341"	"1"	"3.51"	"1.872"
##	"-1.341"	"0"	"1.47"	"1.096"
##	"-1.341"	"0"	"1.47"	"1.096"
##	"-1.341"	"0"	"1.43"	"1.066"
##	"-1.342"	"8"	"12.71"	"3.508"
##	"-1.342"	"0"	"2.2"	"1.639"
##	"-1.342"	"0"	"1.52"	"1.132"
##	"-1.342"	"4"	"7.57"	"2.66"
##	"-1.342"	"1"	"3.31"	"1.721"
##	"-1.343"	"6"	"10.04"	"3.008"
##	"-1.343"	"0"	"1.95"	"1.452"

##	"-1.344"	"0"	"1.77"	"1.317"
##	"-1.344"	"28"	"36.89"	"6.616"
##	"-1.344"	"0"	"1.72"	"1.28"
##	"-1.345"	"31"	"39.09"	"6.014"
##	"-1.345"	"3"	"6.41"	"2.535"
##	"-1.346"	"0"	"2.24"	"1.664"
##	"-1.346"	"0"	"2.24"	"1.664"
##	"-1.346"	"1"	"3.23"	"1.657"
##	"-1.347"	"9"	"13.88"	"3.622"
##	"-1.347"	"0"	"1.57"	"1.166"
##	"-1.347"	"139"	"154.38"	"11.417"
##	"-1.347"	"5"	"8.89"	"2.888"
##	"-1.347"	"8"	"12.7"	"3.489"
##	"-1.348"	"0"	"1.75"	"1.298"
##	"-1.348"	"54"	"65.1"	"8.232"
##	"-1.348"	"1"	"3.83"	"2.099"
##	"-1.349"	"2"	"5.11"	"2.305"
##	"-1.349"	"20"	"27.11"	"5.272"
##	"-1.349"	"1"	"3.12"	"1.572"
##	"-1.349"	"10"	"15.16"	"3.824"
##	"-1.352"	"1"	"3.2"	"1.627"
##	"-1.353"	"0"	"2.06"	"1.523"
##	"-1.353"	"366"	"399.91"	"25.06"
##	"-1.353"	"45"	"54.92"	"7.334"
##	"-1.354"	"1"	"3.52"	"1.861"
##	"-1.354"	"0"	"1.73"	"1.278"
##	"-1.355"	"0"	"1.64"	"1.21"
##	"-1.355"	"0"	"1.64"	"1.21"
##	"-1.355"	"22"	"29.19"	"5.308"
##	"-1.355"	"0"	"1.64"	"1.21"
##	"-1.355"	"2"	"4.26"	"1.667"
##	"-1.355"	"2"	"4.26"	"1.667"
##	"-1.355"	"0"	"1.64"	"1.21"
##	"-1.355"	"0"	"1.74"	"1.284"
##	"-1.355"	"2"	"4.26"	"1.667"
##	"-1.355"	"0"	"1.64"	"1.21"
##	"-1.355"	"0"	"1.64"	"1.21"
##	"-1.355"	"0"	"1.64"	"1.21"
##	"-1.355"	"0"	"1.64"	"1.21"
##	"-1.355"	"0"	"1.64"	"1.21"
##	"-1.355"	"0"	"1.64"	"1.21"
##	"-1.356"	"2"	"5.05"	"2.249"
##	"-1.356"	"1"	"3.22"	"1.637"
##	"-1.357"	"25"	"33.03"	"5.916"
##	"-1.357"	"0"	"1.91"	"1.408"
##	"-1.358"	"1"	"3.37"	"1.745"
##	"-1.358"	"0"	"1.89"	"1.392"
##	"-1.359"	"7"	"11.1"	"3.017"
##	"-1.359"	"10"	"15.3"	"3.899"
##	"-1.359"	"0"	"1.84"	"1.354"
##	"-1.36"	"0"	"2"	"1.47"
##	"-1.36"	"0"	"1.71"	"1.258"
##	"-1.36"	"0"	"1.71"	"1.258"
##	"-1.36"	"0"	"2"	"1.47"
##	"-1.36"	"0"	"1.71"	"1.258"
##	"-1.361"	"0"	"1.54"	"1.132"

##	"-1.362"	"10"	"15.74"	"4.215"
##	"-1.362"	"1"	"3.89"	"2.122"
##	"-1.362"	"0"	"1.53"	"1.123"
##	"-1.363"	"0"	"1.99"	"1.46"
##	"-1.363"	"14"	"20.14"	"4.504"
##	"-1.364"	"5"	"9.34"	"3.182"
##	"-1.365"	"0"	"2.06"	"1.51"
##	"-1.365"	"0"	"1.6"	"1.172"
##	"-1.365"	"2"	"4.68"	"1.964"
##	"-1.367"	"4"	"7.37"	"2.465"
##	"-1.367"	"0"	"1.87"	"1.368"
##	"-1.367"	"11"	"17.61"	"4.834"
##	"-1.367"	"1"	"3.84"	"2.078"
##	"-1.367"	"0"	"2.15"	"1.572"
##	"-1.368"	"1"	"5.39"	"3.21"
##	"-1.369"	"3"	"6.13"	"2.286"
##	"-1.369"	"13"	"18.55"	"4.054"
##	"-1.37"	"0"	"1.82"	"1.329"
##	"-1.37"	"1"	"3.26"	"1.649"
##	"-1.371"	"0"	"1.54"	"1.123"
##	"-1.372"	"0"	"1.83"	"1.334"
##	"-1.372"	"0"	"1.83"	"1.334"
##	"-1.373"	"0"	"1.96"	"1.428"
##	"-1.373"	"1"	"3.7"	"1.967"
##	"-1.373"	"0"	"2.15"	"1.566"
##	"-1.374"	"0"	"1.63"	"1.186"
##	"-1.376"	"3"	"6.85"	"2.797"
##	"-1.376"	"0"	"1.59"	"1.156"
##	"-1.376"	"0"	"1.77"	"1.286"
##	"-1.377"	"0"	"1.88"	"1.365"
##	"-1.377"	"8"	"12.66"	"3.385"
##	"-1.378"	"6"	"10.84"	"3.513"
##	"-1.379"	"385"	"420.01"	"25.381"
##	"-1.379"	"0"	"1.43"	"1.037"
##	"-1.379"	"34"	"42.29"	"6.012"
##	"-1.379"	"0"	"1.98"	"1.435"
##	"-1.38"	"0"	"1.83"	"1.326"
##	"-1.38"	"14"	"20.71"	"4.862"
##	"-1.38"	"0"	"1.83"	"1.326"
##	"-1.38"	"0"	"1.83"	"1.326"
##	"-1.38"	"0"	"1.83"	"1.326"
##	"-1.381"	"1"	"3.18"	"1.579"
##	"-1.382"	"0"	"1.9"	"1.374"
##	"-1.383"	"0"	"2.01"	"1.453"
##	"-1.383"	"0"	"2.01"	"1.453"
##	"-1.383"	"0"	"2.01"	"1.453"
##	"-1.383"	"91"	"104.47"	"9.741"
##	"-1.385"	"13"	"19.27"	"4.526"
##	"-1.385"	"0"	"1.69"	"1.22"
##	"-1.385"	"0"	"1.69"	"1.22"
##	"-1.385"	"0"	"1.69"	"1.22"
##	"-1.385"	"45"	"54.58"	"6.918"
##	"-1.385"	"8"	"12.97"	"3.589"
##	"-1.386"	"26"	"34.14"	"5.872"

##	"-1.386"	"0"	"2.18"	"1.572"
##	"-1.387"	"22"	"29.4"	"5.335"
##	"-1.387"	"11"	"17.3"	"4.543"
##	"-1.387"	"0"	"1.86"	"1.341"
##	"-1.387"	"0"	"1.89"	"1.363"
##	"-1.388"	"68"	"80.16"	"8.759"
##	"-1.388"	"0"	"1.83"	"1.319"
##	"-1.388"	"0"	"1.83"	"1.319"
##	"-1.388"	"0"	"1.92"	"1.383"
##	"-1.39"	"0"	"1.84"	"1.324"
##	"-1.39"	"0"	"1.9"	"1.367"
##	"-1.391"	"15"	"20.93"	"4.262"
##	"-1.392"	"8"	"12.7"	"3.377"
##	"-1.392"	"16"	"22.59"	"4.736"
##	"-1.392"	"0"	"1.85"	"1.329"
##	"-1.393"	"0"	"2"	"1.435"
##	"-1.393"	"30"	"37.03"	"5.046"
##	"-1.395"	"1"	"3.48"	"1.778"
##	"-1.396"	"6"	"10.51"	"3.23"
##	"-1.396"	"0"	"1.53"	"1.096"
##	"-1.396"	"5"	"9.46"	"3.195"
##	"-1.397"	"56"	"66.02"	"7.173"
##	"-1.397"	"1"	"3.46"	"1.761"
##	"-1.397"	"1"	"3.46"	"1.761"
##	"-1.397"	"0"	"2.25"	"1.61"
##	"-1.397"	"1"	"3.46"	"1.761"
##	"-1.398"	"0"	"2.24"	"1.603"
##	"-1.398"	"13"	"18.16"	"3.692"
##	"-1.4"	"0"	"2.02"	"1.442"
##	"-1.4"	"0"	"1.4"	"0.995"
##	"-1.4"	"1"	"3.58"	"1.843"
##	"-1.4"	"0"	"2.13"	"1.522"
##	"-1.4"	"0"	"1.85"	"1.321"
##	"-1.401"	"0"	"2.38"	"1.698"
##	"-1.401"	"0"	"2.38"	"1.698"
##	"-1.401"	"0"	"2.12"	"1.513"
##	"-1.401"	"0"	"2.12"	"1.513"
##	"-1.401"	"2"	"5.22"	"2.299"
##	"-1.401"	"0"	"2.38"	"1.698"
##	"-1.402"	"0"	"1.56"	"1.113"
##	"-1.402"	"8"	"13.11"	"3.646"
##	"-1.402"	"8"	"13.11"	"3.646"
##	"-1.402"	"0"	"1.56"	"1.113"
##	"-1.402"	"0"	"1.56"	"1.113"
##	"-1.402"	"0"	"1.56"	"1.113"
##	"-1.402"	"0"	"1.56"	"1.113"
##	"-1.402"	"2"	"5.85"	"2.746"
##	"-1.402"	"15"	"21.3"	"4.494"
##	"-1.402"	"0"	"1.56"	"1.113"
##	"-1.403"	"0"	"1.86"	"1.326"
##	"-1.404"	"0"	"2.08"	"1.482"
##	"-1.404"	"0"	"1.78"	"1.268"
##	"-1.404"	"0"	"1.65"	"1.175"
##	"-1.405"	"2"	"5.72"	"2.648"

##	"-1.405"	"0"	"1.71"	"1.217"
##	"-1.405"	"3"	"6.07"	"2.185"
##	"-1.406"	"4"	"7.85"	"2.739"
##	"-1.407"	"0"	"1.73"	"1.23"
##	"-1.407"	"0"	"1.73"	"1.23"
##	"-1.407"	"0"	"1.73"	"1.23"
##	"-1.408"	"0"	"1.88"	"1.335"
##	"-1.409"	"1"	"3.86"	"2.03"
##	"-1.409"	"0"	"2.86"	"2.03"
##	"-1.409"	"0"	"2.86"	"2.03"
##	"-1.41"	"5"	"9.08"	"2.894"
##	"-1.41"	"1"	"4.03"	"2.148"
##	"-1.41"	"8"	"14.01"	"4.263"
##	"-1.41"	"0"	"1.89"	"1.34"
##	"-1.41"	"0"	"1.41"	"0.996"
##	"-1.412"	"1"	"3.21"	"1.565"
##	"-1.412"	"5"	"9.02"	"2.846"
##	"-1.412"	"2"	"5.53"	"2.5"
##	"-1.412"	"1"	"3.21"	"1.565"
##	"-1.413"	"3"	"6.39"	"2.399"
##	"-1.415"	"0"	"1.55"	"1.095"
##	"-1.415"	"12"	"17.67"	"4.008"
##	"-1.416"	"0"	"2.23"	"1.575"
##	"-1.416"	"1"	"4.11"	"2.197"
##	"-1.416"	"6"	"9.87"	"2.733"
##	"-1.417"	"12"	"17.16"	"3.642"
##	"-1.418"	"0"	"2.27"	"1.601"
##	"-1.418"	"1"	"4.23"	"2.278"
##	"-1.419"	"1"	"3.44"	"1.719"
##	"-1.419"	"0"	"1.82"	"1.282"
##	"-1.42"	"0"	"1.59"	"1.12"
##	"-1.421"	"0"	"2.02"	"1.421"
##	"-1.421"	"0"	"2.02"	"1.421"
##	"-1.422"	"4"	"8.35"	"3.06"
##	"-1.422"	"0"	"1.78"	"1.252"
##	"-1.422"	"0"	"1.78"	"1.252"
##	"-1.422"	"0"	"1.78"	"1.252"
##	"-1.423"	"0"	"2.98"	"2.094"
##	"-1.423"	"3"	"6.54"	"2.488"
##	"-1.423"	"9"	"14.96"	"4.19"
##	"-1.424"	"6"	"10.79"	"3.364"
##	"-1.424"	"4"	"7.87"	"2.718"
##	"-1.424"	"0"	"1.67"	"1.173"
##	"-1.425"	"0"	"1.72"	"1.207"
##	"-1.426"	"27"	"35.79"	"6.165"
##	"-1.426"	"2"	"5.66"	"2.567"
##	"-1.426"	"1"	"4.02"	"2.118"
##	"-1.426"	"0"	"1.89"	"1.325"
##	"-1.426"	"0"	"1.63"	"1.143"
##	"-1.427"	"11"	"16.62"	"3.938"
##	"-1.427"	"2"	"4.97"	"2.081"
##	"-1.428"	"131"	"148.18"	"12.027"
##	"-1.428"	"0"	"2.71"	"1.898"
##	"-1.431"	"4"	"8.42"	"3.089"

##	"-1.431"	"26"	"33.45"	"5.208"
##	"-1.432"	"7"	"12.51"	"3.847"
##	"-1.432"	"0"	"2.19"	"1.529"
##	"-1.432"	"0"	"2.03"	"1.417"
##	"-1.432"	"0"	"2.01"	"1.403"
##	"-1.432"	"0"	"2.19"	"1.529"
##	"-1.433"	"51"	"60.5"	"6.631"
##	"-1.434"	"4"	"8.72"	"3.291"
##	"-1.434"	"184"	"204.55"	"14.333"
##	"-1.434"	"1"	"3.61"	"1.82"
##	"-1.436"	"38"	"47.28"	"6.462"
##	"-1.436"	"0"	"1.65"	"1.149"
##	"-1.436"	"0"	"2"	"1.393"
##	"-1.436"	"2"	"5.49"	"2.431"
##	"-1.436"	"0"	"1.65"	"1.149"
##	"-1.437"	"0"	"1.75"	"1.218"
##	"-1.437"	"2"	"5.51"	"2.443"
##	"-1.437"	"3"	"6.26"	"2.268"
##	"-1.437"	"0"	"2.91"	"2.026"
##	"-1.438"	"0"	"1.87"	"1.3"
##	"-1.439"	"2"	"5.8"	"2.64"
##	"-1.439"	"1"	"3.93"	"2.036"
##	"-1.441"	"0"	"1.84"	"1.277"
##	"-1.442"	"1"	"3.63"	"1.824"
##	"-1.442"	"2"	"5.31"	"2.295"
##	"-1.442"	"3"	"6.31"	"2.295"
##	"-1.442"	"15"	"21.7"	"4.646"
##	"-1.442"	"1"	"3.68"	"1.858"
##	"-1.443"	"3"	"6.29"	"2.28"
##	"-1.443"	"0"	"1.89"	"1.31"
##	"-1.443"	"2"	"4.5"	"1.732"
##	"-1.444"	"0"	"2.08"	"1.44"
##	"-1.444"	"0"	"2"	"1.385"
##	"-1.444"	"1"	"3.64"	"1.829"
##	"-1.444"	"6"	"11.06"	"3.504"
##	"-1.444"	"6"	"10.89"	"3.387"
##	"-1.445"	"46"	"56.63"	"7.356"
##	"-1.445"	"14"	"20.63"	"4.59"
##	"-1.446"	"16"	"23.24"	"5.005"
##	"-1.446"	"1"	"3.6"	"1.798"
##	"-1.447"	"0"	"1.57"	"1.085"
##	"-1.447"	"2"	"5.19"	"2.205"
##	"-1.447"	"0"	"2.03"	"1.403"
##	"-1.447"	"0"	"2.05"	"1.417"
##	"-1.447"	"0"	"1.87"	"1.292"
##	"-1.448"	"0"	"1.83"	"1.264"
##	"-1.448"	"0"	"1.83"	"1.264"
##	"-1.448"	"0"	"1.83"	"1.264"
##	"-1.448"	"0"	"1.83"	"1.264"
##	"-1.449"	"78"	"91.06"	"9.014"
##	"-1.449"	"0"	"1.97"	"1.359"
##	"-1.45"	"5"	"9.76"	"3.282"
##	"-1.45"	"4"	"8.89"	"3.372"
##	"-1.45"	"0"	"2.24"	"1.545"

##	"-1.451"	"11"	"16.38"	"3.709"
##	"-1.451"	"0"	"2.16"	"1.489"
##	"-1.451"	"153"	"173.85"	"14.368"
##	"-1.451"	"0"	"2.08"	"1.433"
##	"-1.451"	"0"	"2.13"	"1.468"
##	"-1.451"	"0"	"2.13"	"1.468"
##	"-1.451"	"0"	"2.08"	"1.433"
##	"-1.452"	"2"	"5.08"	"2.121"
##	"-1.452"	"1"	"4.09"	"2.128"
##	"-1.452"	"19"	"25.63"	"4.565"
##	"-1.452"	"1"	"3.61"	"1.797"
##	"-1.453"	"6"	"10.64"	"3.193"
##	"-1.453"	"5"	"9.53"	"3.119"
##	"-1.453"	"15"	"21.38"	"4.392"
##	"-1.453"	"1"	"3.69"	"1.852"
##	"-1.453"	"1"	"3.69"	"1.852"
##	"-1.454"	"247"	"268.1"	"14.511"
##	"-1.456"	"55"	"66.65"	"8.003"
##	"-1.456"	"0"	"1.94"	"1.332"
##	"-1.457"	"1"	"4.25"	"2.231"
##	"-1.457"	"54"	"65.46"	"7.863"
##	"-1.457"	"14"	"20.83"	"4.686"
##	"-1.458"	"0"	"1.65"	"1.132"
##	"-1.458"	"0"	"2.08"	"1.426"
##	"-1.459"	"0"	"2.42"	"1.659"
##	"-1.459"	"6"	"11.35"	"3.666"
##	"-1.459"	"0"	"2.51"	"1.72"
##	"-1.459"	"0"	"2.42"	"1.659"
##	"-1.459"	"0"	"1.84"	"1.261"
##	"-1.46"	"0"	"2.44"	"1.672"
##	"-1.46"	"0"	"2.44"	"1.672"
##	"-1.46"	"0"	"2.15"	"1.473"
##	"-1.46"	"0"	"2.45"	"1.678"
##	"-1.46"	"0"	"2.45"	"1.678"
##	"-1.46"	"0"	"2.45"	"1.678"
##	"-1.46"	"0"	"2.45"	"1.678"
##	"-1.461"	"0"	"2.75"	"1.882"
##	"-1.461"	"28"	"36.56"	"5.859"
##	"-1.461"	"0"	"2.32"	"1.588"
##	"-1.462"	"2"	"4.87"	"1.963"
##	"-1.463"	"1"	"3.81"	"1.921"
##	"-1.464"	"5"	"8.98"	"2.719"
##	"-1.465"	"1"	"3.6"	"1.775"
##	"-1.465"	"0"	"2.35"	"1.604"
##	"-1.465"	"1"	"3.6"	"1.775"
##	"-1.465"	"0"	"1.97"	"1.344"
##	"-1.465"	"0"	"2.06"	"1.406"
##	"-1.465"	"1"	"3.66"	"1.816"
##	"-1.465"	"0"	"2.06"	"1.406"
##	"-1.466"	"8"	"13.96"	"4.065"
##	"-1.466"	"5"	"9.39"	"2.995"
##	"-1.467"	"0"	"1.88"	"1.281"
##	"-1.469"	"0"	"2.6"	"1.77"
##	"-1.47"	"9"	"14.13"	"3.489"

##	"-1.47"	"9"	"14.13"	"3.489"
##	"-1.47"	"9"	"14.13"	"3.489"
##	"-1.47"	"0"	"3.3"	"2.245"
##	"-1.471"	"5"	"9.39"	"2.984"
##	"-1.471"	"0"	"1.93"	"1.312"
##	"-1.472"	"0"	"2.33"	"1.583"
##	"-1.472"	"7"	"12.67"	"3.851"
##	"-1.472"	"0"	"2.74"	"1.862"
##	"-1.472"	"0"	"2.74"	"1.862"
##	"-1.472"	"1"	"3.72"	"1.848"
##	"-1.472"	"0"	"2.74"	"1.862"
##	"-1.473"	"7"	"11.95"	"3.362"
##	"-1.473"	"7"	"11.95"	"3.362"
##	"-1.473"	"2"	"5.03"	"2.057"
##	"-1.473"	"3"	"6.68"	"2.498"
##	"-1.474"	"0"	"2.3"	"1.56"
##	"-1.474"	"8"	"12.53"	"3.073"
##	"-1.474"	"0"	"2.25"	"1.527"
##	"-1.474"	"5"	"9.25"	"2.883"
##	"-1.474"	"0"	"2.21"	"1.499"
##	"-1.475"	"1"	"3.81"	"1.905"
##	"-1.475"	"22"	"30.18"	"5.546"
##	"-1.475"	"0"	"2"	"1.356"
##	"-1.476"	"124"	"140.92"	"11.462"
##	"-1.476"	"24"	"31.9"	"5.353"
##	"-1.476"	"0"	"1.83"	"1.24"
##	"-1.476"	"1"	"4.14"	"2.127"
##	"-1.477"	"12"	"17.91"	"4"
##	"-1.477"	"0"	"2.03"	"1.374"
##	"-1.478"	"0"	"2.01"	"1.36"
##	"-1.478"	"4"	"8.01"	"2.714"
##	"-1.478"	"0"	"2.16"	"1.461"
##	"-1.478"	"0"	"1.74"	"1.177"
##	"-1.479"	"2"	"5.12"	"2.11"
##	"-1.479"	"2"	"5.73"	"2.522"
##	"-1.479"	"0"	"2.22"	"1.501"
##	"-1.48"	"1"	"3.74"	"1.851"
##	"-1.48"	"1"	"3.57"	"1.736"
##	"-1.48"	"1"	"3.76"	"1.865"
##	"-1.48"	"0"	"1.85"	"1.25"
##	"-1.481"	"19"	"24.83"	"3.937"
##	"-1.481"	"0"	"2.1"	"1.418"
##	"-1.481"	"0"	"2.15"	"1.452"
##	"-1.481"	"50"	"60.04"	"6.779"
##	"-1.483"	"3"	"6.68"	"2.482"
##	"-1.483"	"3"	"7.22"	"2.845"
##	"-1.483"	"0"	"2.14"	"1.443"
##	"-1.483"	"0"	"2.14"	"1.443"
##	"-1.484"	"1"	"4.35"	"2.258"
##	"-1.485"	"24"	"32.22"	"5.537"
##	"-1.485"	"0"	"1.95"	"1.313"
##	"-1.486"	"283"	"318.41"	"23.827"
##	"-1.487"	"0"	"2.01"	"1.352"
##	"-1.488"	"0"	"2.15"	"1.445"

##	"-1.488"	"1"	"3.55"	"1.714"
##	"-1.488"	"0"	"2.15"	"1.445"
##	"-1.488"	"0"	"1.93"	"1.297"
##	"-1.489"	"1"	"4.08"	"2.068"
##	"-1.489"	"7"	"12.42"	"3.641"
##	"-1.489"	"2"	"5.23"	"2.169"
##	"-1.489"	"0"	"2.04"	"1.37"
##	"-1.489"	"0"	"2.28"	"1.531"
##	"-1.49"	"0"	"2.02"	"1.356"
##	"-1.49"	"1"	"4.07"	"2.061"
##	"-1.49"	"1"	"4.07"	"2.061"
##	"-1.491"	"0"	"1.94"	"1.301"
##	"-1.491"	"1"	"3.62"	"1.757"
##	"-1.492"	"0"	"2.44"	"1.635"
##	"-1.492"	"0"	"2"	"1.341"
##	"-1.493"	"65"	"78.37"	"8.954"
##	"-1.493"	"0"	"2.66"	"1.782"
##	"-1.494"	"0"	"2.21"	"1.479"
##	"-1.494"	"0"	"2.21"	"1.479"
##	"-1.494"	"1"	"3.98"	"1.995"
##	"-1.494"	"0"	"2.21"	"1.479"
##	"-1.494"	"0"	"2.21"	"1.479"
##	"-1.495"	"0"	"1.92"	"1.285"
##	"-1.496"	"0"	"2.06"	"1.377"
##	"-1.496"	"0"	"2.06"	"1.377"
##	"-1.497"	"1"	"4.19"	"2.131"
##	"-1.497"	"0"	"2.04"	"1.363"
##	"-1.498"	"51"	"61.52"	"7.024"
##	"-1.498"	"1"	"3.82"	"1.882"
##	"-1.498"	"1"	"3.98"	"1.99"
##	"-1.498"	"16"	"22.87"	"4.585"
##	"-1.499"	"0"	"1.62"	"1.08"
##	"-1.499"	"213"	"236.69"	"15.805"
##	"-1.499"	"0"	"1.97"	"1.314"
##	"-1.5"	"5"	"9.23"	"2.821"
##	"-1.501"	"0"	"2.18"	"1.452"
##	"-1.501"	"0"	"2.13"	"1.419"
##	"-1.502"	"0"	"2.33"	"1.551"
##	"-1.504"	"0"	"2.44"	"1.623"
##	"-1.504"	"2"	"5.65"	"2.426"
##	"-1.504"	"2"	"5.65"	"2.426"
##	"-1.505"	"3"	"6.64"	"2.418"
##	"-1.505"	"0"	"1.82"	"1.209"
##	"-1.505"	"56"	"68.47"	"8.285"
##	"-1.505"	"1"	"4.05"	"2.027"
##	"-1.505"	"0"	"1.82"	"1.209"
##	"-1.505"	"0"	"1.96"	"1.302"
##	"-1.505"	"0"	"1.88"	"1.249"
##	"-1.505"	"0"	"1.82"	"1.209"
##	"-1.506"	"7"	"12.12"	"3.4"
##	"-1.507"	"1"	"4.31"	"2.196"
##	"-1.507"	"0"	"2.02"	"1.341"
##	"-1.507"	"1"	"4.17"	"2.104"
##	"-1.509"	"22"	"29.69"	"5.094"

##	"-1.509"	"0"	"1.94"	"1.286"
##	"-1.509"	"0"	"2"	"1.326"
##	"-1.509"	"8"	"14.06"	"4.017"
##	"-1.51"	"0"	"2.46"	"1.629"
##	"-1.51"	"24"	"32.79"	"5.819"
##	"-1.51"	"2"	"4.93"	"1.94"
##	"-1.511"	"0"	"2.38"	"1.575"
##	"-1.511"	"6"	"10.28"	"2.832"
##	"-1.511"	"0"	"2.39"	"1.582"
##	"-1.512"	"0"	"2.36"	"1.56"
##	"-1.512"	"0"	"2.36"	"1.56"
##	"-1.512"	"22"	"29.59"	"5.021"
##	"-1.512"	"2"	"5.69"	"2.44"
##	"-1.512"	"0"	"2.36"	"1.56"
##	"-1.512"	"0"	"2.36"	"1.56"
##	"-1.512"	"0"	"2.36"	"1.56"
##	"-1.513"	"2"	"6.28"	"2.829"
##	"-1.513"	"0"	"2.53"	"1.672"
##	"-1.513"	"13"	"20.3"	"4.825"
##	"-1.514"	"0"	"2.83"	"1.87"
##	"-1.514"	"0"	"1.69"	"1.116"
##	"-1.515"	"0"	"2.28"	"1.505"
##	"-1.515"	"0"	"2.78"	"1.834"
##	"-1.515"	"1"	"3.68"	"1.769"
##	"-1.515"	"0"	"2.02"	"1.333"
##	"-1.516"	"0"	"2.4"	"1.583"
##	"-1.516"	"10"	"15.88"	"3.878"
##	"-1.517"	"3"	"6.52"	"2.32"
##	"-1.518"	"2"	"5.39"	"2.233"
##	"-1.519"	"0"	"2.17"	"1.429"
##	"-1.52"	"0"	"2.22"	"1.46"
##	"-1.52"	"0"	"2.22"	"1.46"
##	"-1.521"	"0"	"1.91"	"1.256"
##	"-1.521"	"1"	"4.2"	"2.103"
##	"-1.521"	"0"	"2.25"	"1.48"
##	"-1.521"	"1"	"3.57"	"1.689"
##	"-1.523"	"0"	"1.76"	"1.156"
##	"-1.523"	"15"	"21.1"	"4.006"
##	"-1.523"	"0"	"2.18"	"1.431"
##	"-1.523"	"0"	"1.92"	"1.261"
##	"-1.523"	"4"	"8.81"	"3.158"
##	"-1.524"	"0"	"2.13"	"1.397"
##	"-1.524"	"0"	"1.96"	"1.286"
##	"-1.524"	"0"	"1.88"	"1.233"
##	"-1.525"	"19"	"27.2"	"5.379"
##	"-1.525"	"0"	"2.65"	"1.737"
##	"-1.525"	"1"	"3.68"	"1.757"
##	"-1.526"	"150"	"168.34"	"12.022"
##	"-1.527"	"3"	"7.41"	"2.889"
##	"-1.527"	"1"	"3.46"	"1.611"
##	"-1.527"	"1"	"3.81"	"1.841"
##	"-1.527"	"3"	"7.09"	"2.678"
##	"-1.529"	"2"	"5.48"	"2.276"
##	"-1.529"	"2"	"5.48"	"2.276"

##	"-1.529"	"2"	"5.72"	"2.433"
##	"-1.529"	"2"	"5.48"	"2.276"
##	"-1.53"	"1"	"3.86"	"1.87"
##	"-1.53"	"0"	"2.54"	"1.66"
##	"-1.531"	"6"	"11"	"3.266"
##	"-1.531"	"241"	"264.59"	"15.408"
##	"-1.531"	"2"	"5.45"	"2.254"
##	"-1.531"	"2"	"5.45"	"2.254"
##	"-1.531"	"6"	"10.79"	"3.128"
##	"-1.532"	"305"	"339.51"	"22.521"
##	"-1.532"	"3"	"6.71"	"2.422"
##	"-1.532"	"0"	"2.09"	"1.364"
##	"-1.532"	"5"	"9.1"	"2.676"
##	"-1.533"	"1"	"3.95"	"1.925"
##	"-1.533"	"0"	"2.63"	"1.715"
##	"-1.533"	"1"	"3.7"	"1.761"
##	"-1.534"	"0"	"3.59"	"2.34"
##	"-1.534"	"130"	"147.73"	"11.558"
##	"-1.535"	"0"	"2.52"	"1.642"
##	"-1.535"	"1"	"4.17"	"2.065"
##	"-1.537"	"58"	"69.66"	"7.585"
##	"-1.537"	"1"	"4.32"	"2.16"
##	"-1.537"	"0"	"2.87"	"1.868"
##	"-1.538"	"2"	"5.56"	"2.315"
##	"-1.538"	"0"	"1.83"	"1.19"
##	"-1.539"	"0"	"2.97"	"1.93"
##	"-1.539"	"0"	"2.46"	"1.598"
##	"-1.539"	"0"	"2.97"	"1.93"
##	"-1.54"	"0"	"2.2"	"1.428"
##	"-1.54"	"50"	"62.7"	"8.247"
##	"-1.54"	"5"	"9.51"	"2.928"
##	"-1.54"	"17"	"24.32"	"4.752"
##	"-1.541"	"0"	"2.6"	"1.688"
##	"-1.541"	"2"	"5.32"	"2.155"
##	"-1.542"	"0"	"2.17"	"1.407"
##	"-1.543"	"12"	"18.28"	"4.07"
##	"-1.543"	"1"	"4.16"	"2.049"
##	"-1.543"	"0"	"2.32"	"1.503"
##	"-1.544"	"20"	"27.97"	"5.161"
##	"-1.544"	"2"	"5.5"	"2.267"
##	"-1.545"	"0"	"2.16"	"1.398"
##	"-1.545"	"7"	"11.91"	"3.179"
##	"-1.545"	"0"	"2.64"	"1.709"
##	"-1.546"	"80"	"95.37"	"9.939"
##	"-1.546"	"0"	"2.35"	"1.52"
##	"-1.546"	"1"	"4.19"	"2.063"
##	"-1.546"	"3"	"7.36"	"2.82"
##	"-1.547"	"0"	"1.89"	"1.222"
##	"-1.547"	"0"	"2.54"	"1.642"
##	"-1.548"	"0"	"2.88"	"1.86"
##	"-1.549"	"0"	"2.11"	"1.363"
##	"-1.549"	"0"	"2.11"	"1.363"
##	"-1.549"	"0"	"2.11"	"1.363"
##	"-1.55"	"0"	"2.17"	"1.4"

##	"-1.551"	"17"	"24.86"	"5.067"
##	"-1.552"	"2"	"5.78"	"2.435"
##	"-1.552"	"1"	"4.28"	"2.113"
##	"-1.552"	"1"	"4.28"	"2.113"
##	"-1.552"	"0"	"2.31"	"1.489"
##	"-1.552"	"0"	"2.24"	"1.443"
##	"-1.553"	"0"	"2.1"	"1.352"
##	"-1.553"	"1"	"3.53"	"1.63"
##	"-1.554"	"1"	"4.4"	"2.188"
##	"-1.554"	"3"	"6.8"	"2.445"
##	"-1.554"	"7"	"12.93"	"3.817"
##	"-1.554"	"0"	"1.87"	"1.203"
##	"-1.554"	"0"	"2.18"	"1.403"
##	"-1.554"	"0"	"2.7"	"1.738"
##	"-1.555"	"18"	"25.33"	"4.714"
##	"-1.555"	"0"	"2.74"	"1.762"
##	"-1.556"	"57"	"70.26"	"8.524"
##	"-1.556"	"0"	"2.94"	"1.89"
##	"-1.556"	"5"	"10.1"	"3.277"
##	"-1.556"	"94"	"110.21"	"10.417"
##	"-1.556"	"0"	"2.38"	"1.529"
##	"-1.557"	"0"	"2.25"	"1.445"
##	"-1.557"	"3"	"6.92"	"2.517"
##	"-1.557"	"0"	"2.01"	"1.291"
##	"-1.558"	"0"	"3.24"	"2.08"
##	"-1.559"	"0"	"2.7"	"1.732"
##	"-1.559"	"0"	"2.7"	"1.732"
##	"-1.559"	"0"	"2.54"	"1.629"
##	"-1.56"	"6"	"11.16"	"3.308"
##	"-1.561"	"11"	"17.32"	"4.05"
##	"-1.562"	"0"	"2.1"	"1.345"
##	"-1.562"	"0"	"2.1"	"1.345"
##	"-1.562"	"4"	"9"	"3.2"
##	"-1.564"	"0"	"2.5"	"1.599"
##	"-1.564"	"9"	"15.2"	"3.964"
##	"-1.564"	"0"	"2.49"	"1.592"
##	"-1.564"	"0"	"2.49"	"1.592"
##	"-1.564"	"2"	"6.08"	"2.608"
##	"-1.566"	"0"	"2.57"	"1.641"
##	"-1.566"	"29"	"37.64"	"5.519"
##	"-1.566"	"0"	"2.31"	"1.475"
##	"-1.566"	"27"	"35.83"	"5.639"
##	"-1.566"	"0"	"2.56"	"1.635"
##	"-1.567"	"0"	"2.41"	"1.538"
##	"-1.568"	"1"	"4.31"	"2.112"
##	"-1.569"	"5"	"10.32"	"3.39"
##	"-1.569"	"0"	"2.85"	"1.817"
##	"-1.569"	"0"	"2.73"	"1.74"
##	"-1.57"	"9"	"14.81"	"3.7"
##	"-1.57"	"0"	"2.23"	"1.42"
##	"-1.571"	"3"	"7.02"	"2.558"
##	"-1.571"	"3"	"7.54"	"2.89"
##	"-1.571"	"1"	"3.84"	"1.808"
##	"-1.573"	"0"	"2.42"	"1.539"

##	"-1.573"	"0"	"2.22"	"1.411"
##	"-1.574"	"0"	"2.35"	"1.493"
##	"-1.575"	"14"	"21.86"	"4.991"
##	"-1.575"	"3"	"6.93"	"2.495"
##	"-1.576"	"5"	"9.79"	"3.039"
##	"-1.576"	"9"	"14.58"	"3.54"
##	"-1.576"	"1"	"3.74"	"1.739"
##	"-1.576"	"1"	"4.05"	"1.935"
##	"-1.576"	"1"	"4.71"	"2.354"
##	"-1.576"	"0"	"3.22"	"2.043"
##	"-1.577"	"5"	"9.44"	"2.815"
##	"-1.577"	"0"	"2.07"	"1.312"
##	"-1.577"	"0"	"2.33"	"1.477"
##	"-1.577"	"1"	"4.62"	"2.295"
##	"-1.577"	"0"	"2.33"	"1.477"
##	"-1.578"	"0"	"3.03"	"1.92"
##	"-1.578"	"3"	"6.41"	"2.161"
##	"-1.579"	"4"	"8.77"	"3.021"
##	"-1.579"	"5"	"10.57"	"3.528"
##	"-1.58"	"4"	"8.23"	"2.677"
##	"-1.58"	"0"	"2.41"	"1.525"
##	"-1.58"	"5"	"8.97"	"2.512"
##	"-1.58"	"0"	"2.05"	"1.298"
##	"-1.58"	"0"	"2.05"	"1.298"
##	"-1.58"	"0"	"2.59"	"1.64"
##	"-1.583"	"15"	"22.42"	"4.689"
##	"-1.583"	"0"	"1.96"	"1.238"
##	"-1.583"	"0"	"2.06"	"1.301"
##	"-1.584"	"2"	"5.75"	"2.367"
##	"-1.584"	"0"	"2.91"	"1.837"
##	"-1.587"	"0"	"2.16"	"1.361"
##	"-1.587"	"12"	"18.69"	"4.216"
##	"-1.588"	"3"	"7.56"	"2.872"
##	"-1.589"	"0"	"2.02"	"1.271"
##	"-1.589"	"5"	"9.42"	"2.782"
##	"-1.59"	"2"	"5.72"	"2.34"
##	"-1.591"	"0"	"2.15"	"1.351"
##	"-1.591"	"1"	"4.34"	"2.1"
##	"-1.591"	"0"	"2.9"	"1.823"
##	"-1.591"	"0"	"2.15"	"1.351"
##	"-1.591"	"0"	"2.79"	"1.754"
##	"-1.591"	"1"	"3.92"	"1.835"
##	"-1.591"	"0"	"2.79"	"1.754"
##	"-1.592"	"1"	"4.25"	"2.042"
##	"-1.593"	"6"	"10.34"	"2.724"
##	"-1.593"	"0"	"2.42"	"1.519"
##	"-1.593"	"1"	"4.32"	"2.084"
##	"-1.593"	"0"	"2.06"	"1.293"
##	"-1.594"	"0"	"2.36"	"1.481"
##	"-1.594"	"1"	"3.68"	"1.681"
##	"-1.594"	"1"	"3.68"	"1.681"
##	"-1.594"	"1"	"3.68"	"1.681"
##	"-1.596"	"2"	"5.97"	"2.488"
##	"-1.596"	"0"	"3.12"	"1.955"

##	"-1.596"	"67"	"81.37"	"9.006"
##	"-1.596"	"8"	"13.67"	"3.554"
##	"-1.596"	"0"	"3.12"	"1.955"
##	"-1.596"	"1"	"4.58"	"2.244"
##	"-1.596"	"0"	"2.69"	"1.686"
##	"-1.596"	"0"	"2.35"	"1.473"
##	"-1.597"	"7"	"12.46"	"3.418"
##	"-1.597"	"0"	"1.76"	"1.102"
##	"-1.597"	"0"	"2.34"	"1.465"
##	"-1.597"	"1"	"3.57"	"1.61"
##	"-1.598"	"0"	"2.74"	"1.715"
##	"-1.598"	"0"	"2.74"	"1.715"
##	"-1.598"	"0"	"2.74"	"1.715"
##	"-1.598"	"0"	"2.74"	"1.715"
##	"-1.598"	"0"	"2.1"	"1.314"
##	"-1.599"	"0"	"2.02"	"1.263"
##	"-1.6"	"1"	"4.03"	"1.893"
##	"-1.6"	"0"	"2.08"	"1.3"
##	"-1.601"	"0"	"2.13"	"1.331"
##	"-1.601"	"0"	"2.79"	"1.742"
##	"-1.601"	"1"	"3.76"	"1.724"
##	"-1.601"	"0"	"2.13"	"1.331"
##	"-1.601"	"5"	"10.15"	"3.217"
##	"-1.602"	"1"	"4.58"	"2.235"
##	"-1.603"	"0"	"2.85"	"1.777"
##	"-1.603"	"0"	"2.49"	"1.554"
##	"-1.603"	"0"	"2.85"	"1.777"
##	"-1.603"	"0"	"2.85"	"1.777"
##	"-1.604"	"0"	"2.59"	"1.615"
##	"-1.604"	"132"	"153.56"	"13.443"
##	"-1.605"	"2"	"6.07"	"2.536"
##	"-1.605"	"0"	"2.45"	"1.527"
##	"-1.606"	"1"	"4.56"	"2.217"
##	"-1.606"	"0"	"2.88"	"1.794"
##	"-1.607"	"2"	"5.61"	"2.247"
##	"-1.608"	"2"	"5.78"	"2.351"
##	"-1.608"	"0"	"2.42"	"1.505"
##	"-1.609"	"3"	"7.15"	"2.58"
##	"-1.609"	"0"	"2.36"	"1.467"
##	"-1.609"	"0"	"2.36"	"1.467"
##	"-1.61"	"16"	"23.9"	"4.908"
##	"-1.611"	"2"	"5.69"	"2.29"
##	"-1.611"	"0"	"2.9"	"1.801"
##	"-1.612"	"1"	"4.31"	"2.053"
##	"-1.612"	"0"	"2.03"	"1.259"
##	"-1.612"	"0"	"3.23"	"2.004"
##	"-1.612"	"2"	"5.94"	"2.445"
##	"-1.613"	"0"	"2.44"	"1.513"
##	"-1.613"	"1"	"4.07"	"1.903"
##	"-1.613"	"2"	"6.29"	"2.66"
##	"-1.613"	"1"	"3.93"	"1.816"
##	"-1.615"	"1"	"4.26"	"2.018"
##	"-1.615"	"5"	"10.21"	"3.226"
##	"-1.615"	"1"	"3.83"	"1.753"

##	"-1.615"	"1"	"3.83"	"1.753"
##	"-1.615"	"1"	"3.83"	"1.753"
##	"-1.615"	"1"	"3.83"	"1.753"
##	"-1.615"	"1"	"3.83"	"1.753"
##	"-1.616"	"1"	"4.65"	"2.258"
##	"-1.617"	"13"	"19.58"	"4.068"
##	"-1.617"	"4"	"9.97"	"3.691"
##	"-1.617"	"6"	"11.45"	"3.371"
##	"-1.619"	"0"	"2.23"	"1.377"
##	"-1.619"	"0"	"2.13"	"1.315"
##	"-1.619"	"0"	"2.63"	"1.625"
##	"-1.62"	"7"	"12.32"	"3.284"
##	"-1.62"	"60"	"72.79"	"7.894"
##	"-1.62"	"4"	"8.6"	"2.839"
##	"-1.62"	"1"	"3.65"	"1.635"
##	"-1.622"	"27"	"35.81"	"5.432"
##	"-1.623"	"372"	"410.36"	"23.633"
##	"-1.623"	"0"	"2.16"	"1.331"
##	"-1.623"	"0"	"2.79"	"1.719"
##	"-1.624"	"13"	"19.92"	"4.261"
##	"-1.624"	"0"	"2.47"	"1.521"
##	"-1.624"	"5"	"10.56"	"3.424"
##	"-1.625"	"3"	"7.18"	"2.572"
##	"-1.626"	"3"	"7.28"	"2.633"
##	"-1.626"	"0"	"2.39"	"1.47"
##	"-1.628"	"0"	"2.31"	"1.419"
##	"-1.629"	"1"	"4.2"	"1.964"
##	"-1.63"	"16"	"23.8"	"4.784"
##	"-1.63"	"17"	"24.52"	"4.613"
##	"-1.63"	"11"	"17.11"	"3.749"
##	"-1.631"	"0"	"3.66"	"2.244"
##	"-1.631"	"0"	"2.9"	"1.778"
##	"-1.631"	"1"	"4.17"	"1.944"
##	"-1.631"	"5"	"10.27"	"3.231"
##	"-1.631"	"0"	"2.92"	"1.79"
##	"-1.631"	"5"	"10.27"	"3.231"
##	"-1.632"	"0"	"2.4"	"1.47"
##	"-1.632"	"0"	"2.47"	"1.514"
##	"-1.632"	"0"	"2.47"	"1.514"
##	"-1.632"	"155"	"178.22"	"14.23"
##	"-1.632"	"0"	"2.46"	"1.507"
##	"-1.632"	"0"	"2.47"	"1.514"
##	"-1.632"	"0"	"2.47"	"1.514"
##	"-1.632"	"0"	"2.47"	"1.514"
##	"-1.633"	"1"	"5.33"	"2.652"
##	"-1.634"	"3"	"7.27"	"2.613"
##	"-1.634"	"0"	"3.05"	"1.866"
##	"-1.635"	"0"	"2.26"	"1.383"
##	"-1.635"	"0"	"2.53"	"1.547"
##	"-1.636"	"0"	"2.31"	"1.412"
##	"-1.636"	"3"	"7.04"	"2.47"
##	"-1.636"	"14"	"21.94"	"4.853"
##	"-1.636"	"0"	"2.92"	"1.785"
##	"-1.636"	"1"	"4.01"	"1.839"

##	"-1.636"	"9"	"14.79"	"3.54"
##	"-1.638"	"2"	"6.86"	"2.968"
##	"-1.638"	"40"	"50.38"	"6.339"
##	"-1.638"	"10"	"15.83"	"3.559"
##	"-1.638"	"87"	"103.69"	"10.187"
##	"-1.638"	"23"	"31.6"	"5.251"
##	"-1.64"	"0"	"2.05"	"1.25"
##	"-1.64"	"0"	"2.05"	"1.25"
##	"-1.64"	"0"	"2.05"	"1.25"
##	"-1.64"	"0"	"3.17"	"1.934"
##	"-1.64"	"2"	"6.3"	"2.623"
##	"-1.641"	"0"	"2.32"	"1.413"
##	"-1.641"	"6"	"10.6"	"2.803"
##	"-1.641"	"1"	"4.21"	"1.956"
##	"-1.641"	"14"	"21.72"	"4.703"
##	"-1.642"	"9"	"15.92"	"4.213"
##	"-1.643"	"2"	"5.56"	"2.166"
##	"-1.643"	"0"	"2.6"	"1.583"
##	"-1.645"	"0"	"2.21"	"1.343"
##	"-1.645"	"0"	"2.19"	"1.331"
##	"-1.646"	"9"	"15.06"	"3.681"
##	"-1.646"	"0"	"3.04"	"1.847"
##	"-1.646"	"0"	"2.85"	"1.731"
##	"-1.647"	"23"	"30.71"	"4.68"
##	"-1.65"	"8"	"14.96"	"4.219"
##	"-1.65"	"0"	"2.7"	"1.636"
##	"-1.651"	"7"	"12.42"	"3.282"
##	"-1.651"	"0"	"2.64"	"1.599"
##	"-1.653"	"0"	"2.66"	"1.609"
##	"-1.653"	"1"	"4.76"	"2.275"
##	"-1.653"	"0"	"2.66"	"1.609"
##	"-1.653"	"0"	"2.66"	"1.609"
##	"-1.653"	"0"	"2.66"	"1.609"
##	"-1.653"	"0"	"2.66"	"1.609"
##	"-1.655"	"0"	"3.46"	"2.091"
##	"-1.656"	"0"	"3.32"	"2.004"
##	"-1.656"	"0"	"2.59"	"1.564"
##	"-1.656"	"0"	"3.67"	"2.216"
##	"-1.657"	"12"	"18.44"	"3.886"
##	"-1.657"	"0"	"2.63"	"1.587"
##	"-1.657"	"11"	"17.28"	"3.79"
##	"-1.657"	"0"	"2.63"	"1.587"
##	"-1.657"	"17"	"25.77"	"5.293"
##	"-1.657"	"8"	"13.68"	"3.429"
##	"-1.657"	"0"	"2.85"	"1.72"
##	"-1.657"	"23"	"31.98"	"5.418"
##	"-1.659"	"0"	"2.66"	"1.603"
##	"-1.659"	"0"	"2.49"	"1.501"
##	"-1.66"	"1"	"3.73"	"1.644"
##	"-1.66"	"1"	"4.2"	"1.928"
##	"-1.66"	"0"	"2.42"	"1.458"
##	"-1.66"	"2"	"5.48"	"2.096"
##	"-1.661"	"0"	"3.49"	"2.101"
##	"-1.662"	"0"	"3.82"	"2.298"

##	"-1.663"	"6"	"11.07"	"3.049"
##	"-1.664"	"0"	"2.53"	"1.521"
##	"-1.664"	"0"	"2.76"	"1.658"
##	"-1.665"	"0"	"2.65"	"1.591"
##	"-1.666"	"7"	"13.14"	"3.685"
##	"-1.667"	"0"	"2.87"	"1.721"
##	"-1.667"	"0"	"2.68"	"1.607"
##	"-1.668"	"39"	"50.52"	"6.906"
##	"-1.67"	"0"	"2.62"	"1.569"
##	"-1.671"	"0"	"3.41"	"2.04"
##	"-1.671"	"114"	"132.37"	"10.993"
##	"-1.671"	"0"	"2.54"	"1.52"
##	"-1.671"	"1"	"4.04"	"1.82"
##	"-1.671"	"0"	"2.63"	"1.574"
##	"-1.671"	"21"	"30.13"	"5.464"
##	"-1.671"	"2"	"5.83"	"2.292"
##	"-1.672"	"2"	"5.64"	"2.177"
##	"-1.672"	"0"	"2.77"	"1.657"
##	"-1.672"	"0"	"2.51"	"1.501"
##	"-1.673"	"300"	"338.79"	"23.185"
##	"-1.673"	"1"	"3.87"	"1.715"
##	"-1.674"	"0"	"2.49"	"1.487"
##	"-1.676"	"0"	"2.7"	"1.611"
##	"-1.676"	"0"	"2.42"	"1.444"
##	"-1.676"	"0"	"2.42"	"1.444"
##	"-1.676"	"0"	"2.42"	"1.444"
##	"-1.676"	"0"	"2.95"	"1.76"
##	"-1.676"	"0"	"2.42"	"1.444"
##	"-1.678"	"0"	"2.41"	"1.436"
##	"-1.678"	"0"	"2.55"	"1.52"
##	"-1.679"	"0"	"2.96"	"1.763"
##	"-1.679"	"2"	"5.93"	"2.341"
##	"-1.679"	"1"	"4.52"	"2.096"
##	"-1.68"	"3"	"6.84"	"2.286"
##	"-1.68"	"0"	"2.74"	"1.631"
##	"-1.68"	"58"	"71.66"	"8.129"
##	"-1.68"	"3"	"7.8"	"2.857"
##	"-1.68"	"0"	"2.4"	"1.428"
##	"-1.681"	"1"	"4.65"	"2.171"
##	"-1.681"	"2"	"6.48"	"2.665"
##	"-1.682"	"4"	"8.64"	"2.758"
##	"-1.682"	"1"	"4.36"	"1.998"
##	"-1.683"	"0"	"2.89"	"1.717"
##	"-1.683"	"0"	"2.48"	"1.474"
##	"-1.683"	"3"	"7.59"	"2.727"
##	"-1.684"	"3"	"6.53"	"2.096"
##	"-1.685"	"0"	"2.65"	"1.572"
##	"-1.685"	"1"	"5.17"	"2.474"
##	"-1.686"	"2"	"5.91"	"2.319"
##	"-1.686"	"310"	"352.19"	"25.027"
##	"-1.686"	"4"	"7.72"	"2.207"
##	"-1.686"	"8"	"15.43"	"4.407"
##	"-1.687"	"0"	"3.16"	"1.873"
##	"-1.687"	"43"	"55.03"	"7.13"

##	"-1.69"	"2"	"6.21"	"2.492"
##	"-1.69"	"1"	"5.94"	"2.923"
##	"-1.691"	"0"	"3.3"	"1.951"
##	"-1.691"	"3"	"7.46"	"2.638"
##	"-1.691"	"0"	"3.21"	"1.898"
##	"-1.691"	"0"	"2.58"	"1.525"
##	"-1.691"	"0"	"2.58"	"1.525"
##	"-1.692"	"0"	"3.06"	"1.808"
##	"-1.693"	"0"	"2.35"	"1.388"
##	"-1.694"	"37"	"48.71"	"6.913"
##	"-1.696"	"0"	"2.37"	"1.397"
##	"-1.696"	"3"	"7.37"	"2.577"
##	"-1.696"	"6"	"11.63"	"3.32"
##	"-1.696"	"0"	"2.37"	"1.397"
##	"-1.697"	"11"	"18.08"	"4.172"
##	"-1.697"	"3"	"7.62"	"2.722"
##	"-1.698"	"1"	"4.71"	"2.185"
##	"-1.699"	"0"	"2.93"	"1.725"
##	"-1.699"	"0"	"2.93"	"1.725"
##	"-1.699"	"11"	"17.55"	"3.854"
##	"-1.699"	"0"	"2.93"	"1.725"
##	"-1.7"	"0"	"2.67"	"1.57"
##	"-1.7"	"9"	"15.35"	"3.735"
##	"-1.7"	"1"	"5.19"	"2.465"
##	"-1.701"	"0"	"2.98"	"1.752"
##	"-1.701"	"0"	"2.94"	"1.728"
##	"-1.701"	"0"	"3.02"	"1.775"
##	"-1.702"	"103"	"124.07"	"12.381"
##	"-1.702"	"2"	"7.32"	"3.127"
##	"-1.703"	"0"	"2.41"	"1.415"
##	"-1.703"	"0"	"2.71"	"1.591"
##	"-1.703"	"16"	"24.79"	"5.161"
##	"-1.703"	"0"	"2.51"	"1.474"
##	"-1.703"	"0"	"2.71"	"1.591"
##	"-1.703"	"0"	"2.71"	"1.591"
##	"-1.703"	"0"	"2.71"	"1.591"
##	"-1.703"	"0"	"2.71"	"1.591"
##	"-1.704"	"0"	"2.99"	"1.755"
##	"-1.704"	"0"	"3.23"	"1.896"
##	"-1.704"	"7"	"12.44"	"3.192"
##	"-1.705"	"9"	"15.89"	"4.04"
##	"-1.705"	"1"	"4.42"	"2.006"
##	"-1.705"	"14"	"21.63"	"4.476"
##	"-1.706"	"8"	"13.82"	"3.412"
##	"-1.706"	"0"	"2.58"	"1.512"
##	"-1.706"	"4"	"9.26"	"3.083"
##	"-1.707"	"0"	"3.12"	"1.827"
##	"-1.707"	"0"	"3.02"	"1.769"
##	"-1.708"	"0"	"3.37"	"1.973"
##	"-1.708"	"65"	"80.5"	"9.074"
##	"-1.709"	"6"	"12.22"	"3.639"
##	"-1.709"	"1"	"4.75"	"2.194"
##	"-1.709"	"17"	"24.55"	"4.418"
##	"-1.709"	"0"	"3.11"	"1.82"

##	"-1.71"	"0"	"3.08"	"1.802"
##	"-1.711"	"17"	"25.19"	"4.786"
##	"-1.711"	"52"	"65.83"	"8.083"
##	"-1.711"	"2"	"6.63"	"2.707"
##	"-1.713"	"27"	"37.17"	"5.936"
##	"-1.713"	"12"	"20.24"	"4.81"
##	"-1.713"	"0"	"2.63"	"1.535"
##	"-1.714"	"1"	"5.56"	"2.66"
##	"-1.715"	"4"	"9.54"	"3.23"
##	"-1.715"	"22"	"31.65"	"5.625"
##	"-1.715"	"0"	"3.03"	"1.766"
##	"-1.716"	"0"	"3.66"	"2.133"
##	"-1.716"	"0"	"2.7"	"1.573"
##	"-1.717"	"4"	"9.28"	"3.075"
##	"-1.717"	"0"	"2.36"	"1.375"
##	"-1.718"	"0"	"3"	"1.747"
##	"-1.718"	"3"	"7.38"	"2.55"
##	"-1.718"	"0"	"2.24"	"1.304"
##	"-1.72"	"2"	"6.51"	"2.623"
##	"-1.72"	"0"	"3.28"	"1.907"
##	"-1.72"	"0"	"2.83"	"1.646"
##	"-1.722"	"1"	"3.93"	"1.701"
##	"-1.723"	"5"	"11.42"	"3.726"
##	"-1.724"	"7"	"12.86"	"3.399"
##	"-1.724"	"0"	"3.69"	"2.14"
##	"-1.725"	"0"	"2.72"	"1.577"
##	"-1.725"	"0"	"2.72"	"1.577"
##	"-1.725"	"17"	"25.35"	"4.842"
##	"-1.725"	"0"	"2.72"	"1.577"
##	"-1.725"	"0"	"2.72"	"1.577"
##	"-1.726"	"0"	"3.36"	"1.946"
##	"-1.726"	"0"	"3.39"	"1.964"
##	"-1.726"	"0"	"2.31"	"1.339"
##	"-1.727"	"1"	"4.25"	"1.882"
##	"-1.727"	"1"	"4.13"	"1.813"
##	"-1.727"	"1"	"4.13"	"1.813"
##	"-1.728"	"31"	"41.26"	"5.937"
##	"-1.728"	"1"	"5.74"	"2.744"
##	"-1.729"	"88"	"105.51"	"10.128"
##	"-1.729"	"4"	"8.52"	"2.615"
##	"-1.729"	"0"	"3.18"	"1.839"
##	"-1.731"	"1"	"3.94"	"1.699"
##	"-1.731"	"3"	"6.84"	"2.219"
##	"-1.731"	"9"	"15.92"	"3.997"
##	"-1.731"	"3"	"6.84"	"2.219"
##	"-1.731"	"3"	"6.84"	"2.219"
##	"-1.731"	"3"	"6.84"	"2.219"
##	"-1.732"	"0"	"2.18"	"1.258"
##	"-1.732"	"11"	"17.63"	"3.829"
##	"-1.733"	"0"	"2.73"	"1.575"
##	"-1.733"	"5"	"9.73"	"2.73"
##	"-1.733"	"0"	"2.73"	"1.575"
##	"-1.734"	"0"	"2.93"	"1.689"
##	"-1.734"	"0"	"2.27"	"1.309"

##	"-1.734"	"0"	"2.27"	"1.309"
##	"-1.736"	"1"	"4.78"	"2.177"
##	"-1.736"	"0"	"3.64"	"2.096"
##	"-1.736"	"0"	"3.17"	"1.826"
##	"-1.736"	"0"	"2.42"	"1.394"
##	"-1.737"	"4"	"8.44"	"2.556"
##	"-1.737"	"1"	"5.04"	"2.326"
##	"-1.737"	"1"	"5.04"	"2.326"
##	"-1.738"	"1"	"4.68"	"2.117"
##	"-1.738"	"1"	"4.68"	"2.117"
##	"-1.738"	"1"	"4.68"	"2.117"
##	"-1.739"	"3"	"6.95"	"2.271"
##	"-1.74"	"1"	"4.36"	"1.931"
##	"-1.74"	"0"	"3.37"	"1.937"
##	"-1.74"	"6"	"10.91"	"2.822"
##	"-1.74"	"1"	"4.98"	"2.287"
##	"-1.741"	"0"	"3.17"	"1.821"
##	"-1.741"	"0"	"3.35"	"1.925"
##	"-1.742"	"1"	"4.86"	"2.216"
##	"-1.742"	"4"	"8.88"	"2.801"
##	"-1.742"	"3"	"6.86"	"2.216"
##	"-1.743"	"42"	"54.32"	"7.067"
##	"-1.743"	"0"	"2.66"	"1.526"
##	"-1.743"	"0"	"3.1"	"1.778"
##	"-1.743"	"0"	"2.66"	"1.526"
##	"-1.743"	"0"	"2.66"	"1.526"
##	"-1.743"	"0"	"2.66"	"1.526"
##	"-1.743"	"0"	"2.66"	"1.526"
##	"-1.743"	"0"	"2.66"	"1.526"
##	"-1.743"	"0"	"2.66"	"1.526"
##	"-1.743"	"0"	"2.66"	"1.526"
##	"-1.743"	"9"	"16.66"	"4.395"
##	"-1.744"	"3"	"7.61"	"2.643"
##	"-1.744"	"0"	"2.61"	"1.497"
##	"-1.744"	"0"	"2.77"	"1.588"
##	"-1.744"	"0"	"2.67"	"1.531"
##	"-1.744"	"0"	"2.05"	"1.175"
##	"-1.744"	"0"	"2.61"	"1.497"
##	"-1.744"	"0"	"2.61"	"1.497"
##	"-1.745"	"11"	"17.78"	"3.886"
##	"-1.745"	"0"	"3.12"	"1.788"
##	"-1.746"	"1"	"4.47"	"1.987"
##	"-1.747"	"1"	"5.13"	"2.364"
##	"-1.748"	"11"	"17.82"	"3.901"
##	"-1.748"	"7"	"12.89"	"3.369"
##	"-1.748"	"11"	"18.98"	"4.566"
##	"-1.749"	"0"	"4.61"	"2.636"
##	"-1.749"	"31"	"42.13"	"6.362"
##	"-1.749"	"67"	"81.04"	"8.029"
##	"-1.75"	"0"	"2.3"	"1.314"
##	"-1.75"	"0"	"2.81"	"1.606"
##	"-1.75"	"0"	"2.3"	"1.314"
##	"-1.75"	"0"	"2.3"	"1.314"
##	"-1.75"	"0"	"3.27"	"1.869"

##	"-1.751"	"0"	"3.21"	"1.833"
##	"-1.751"	"1"	"4.21"	"1.833"
##	"-1.751"	"0"	"2.4"	"1.371"
##	"-1.751"	"1"	"5.35"	"2.484"
##	"-1.751"	"1"	"4.33"	"1.902"
##	"-1.751"	"11"	"18.23"	"4.129"
##	"-1.752"	"0"	"3.56"	"2.032"
##	"-1.752"	"137"	"160.16"	"13.218"
##	"-1.752"	"3"	"6.96"	"2.26"
##	"-1.753"	"0"	"3.04"	"1.734"
##	"-1.755"	"0"	"2.74"	"1.561"
##	"-1.755"	"0"	"2.91"	"1.658"
##	"-1.756"	"0"	"2.94"	"1.675"
##	"-1.756"	"5"	"10.06"	"2.881"
##	"-1.756"	"0"	"2.94"	"1.675"
##	"-1.756"	"1"	"4.48"	"1.982"
##	"-1.757"	"0"	"4.31"	"2.452"
##	"-1.757"	"0"	"3.51"	"1.997"
##	"-1.758"	"3"	"8.27"	"2.998"
##	"-1.758"	"5"	"9.95"	"2.815"
##	"-1.759"	"3"	"8.51"	"3.132"
##	"-1.759"	"1"	"5"	"2.274"
##	"-1.759"	"25"	"34.35"	"5.315"
##	"-1.76"	"0"	"2.7"	"1.534"
##	"-1.76"	"0"	"2.93"	"1.665"
##	"-1.761"	"52"	"66.42"	"8.19"
##	"-1.761"	"0"	"3.26"	"1.851"
##	"-1.762"	"0"	"3.51"	"1.992"
##	"-1.762"	"3"	"7.82"	"2.735"
##	"-1.762"	"13"	"20.73"	"4.387"
##	"-1.762"	"13"	"21.59"	"4.876"
##	"-1.762"	"0"	"3.05"	"1.731"
##	"-1.763"	"0"	"2.85"	"1.617"
##	"-1.764"	"0"	"3.37"	"1.91"
##	"-1.764"	"0"	"2.95"	"1.672"
##	"-1.765"	"0"	"3.06"	"1.734"
##	"-1.766"	"6"	"10.71"	"2.668"
##	"-1.766"	"0"	"3.61"	"2.044"
##	"-1.767"	"0"	"2.62"	"1.482"
##	"-1.767"	"0"	"3.53"	"1.997"
##	"-1.767"	"0"	"2.69"	"1.522"
##	"-1.768"	"2"	"5.69"	"2.087"
##	"-1.769"	"0"	"3.09"	"1.747"
##	"-1.769"	"0"	"3.28"	"1.854"
##	"-1.769"	"15"	"24.32"	"5.268"
##	"-1.77"	"0"	"3.23"	"1.825"
##	"-1.77"	"0"	"4.36"	"2.464"
##	"-1.771"	"0"	"3.04"	"1.717"
##	"-1.772"	"0"	"4.07"	"2.297"
##	"-1.772"	"0"	"3.18"	"1.794"
##	"-1.773"	"54"	"68.33"	"8.082"
##	"-1.773"	"0"	"2.77"	"1.563"
##	"-1.773"	"8"	"13.91"	"3.334"
##	"-1.774"	"7"	"12.76"	"3.248"

##	"-1.775"	"0"	"3.91"	"2.202"
##	"-1.775"	"0"	"2.64"	"1.487"
##	"-1.777"	"1"	"5.59"	"2.582"
##	"-1.777"	"6"	"12.38"	"3.589"
##	"-1.778"	"0"	"3.95"	"2.222"
##	"-1.778"	"3"	"7.74"	"2.665"
##	"-1.779"	"1"	"5.54"	"2.552"
##	"-1.78"	"0"	"2.96"	"1.663"
##	"-1.781"	"0"	"2.99"	"1.679"
##	"-1.781"	"25"	"34.48"	"5.323"
##	"-1.782"	"29"	"38.76"	"5.476"
##	"-1.782"	"0"	"3.6"	"2.02"
##	"-1.782"	"0"	"3.32"	"1.863"
##	"-1.783"	"0"	"3.18"	"1.783"
##	"-1.783"	"5"	"10.93"	"3.325"
##	"-1.783"	"0"	"2.67"	"1.498"
##	"-1.783"	"2"	"6.25"	"2.384"
##	"-1.784"	"4"	"9.1"	"2.859"
##	"-1.785"	"1"	"4.92"	"2.196"
##	"-1.785"	"1"	"4.17"	"1.776"
##	"-1.785"	"1"	"5.08"	"2.286"
##	"-1.785"	"0"	"3.24"	"1.815"
##	"-1.786"	"0"	"3.27"	"1.83"
##	"-1.786"	"25"	"36.05"	"6.188"
##	"-1.787"	"0"	"2.58"	"1.444"
##	"-1.787"	"0"	"2.58"	"1.444"
##	"-1.788"	"0"	"2.47"	"1.381"
##	"-1.788"	"0"	"3.39"	"1.896"
##	"-1.788"	"0"	"3.39"	"1.896"
##	"-1.788"	"0"	"2.47"	"1.381"
##	"-1.789"	"9"	"15.35"	"3.549"
##	"-1.789"	"1"	"4.92"	"2.191"
##	"-1.79"	"0"	"3.73"	"2.083"
##	"-1.791"	"30"	"40.64"	"5.94"
##	"-1.791"	"0"	"3.28"	"1.832"
##	"-1.791"	"1"	"4.86"	"2.156"
##	"-1.791"	"3"	"7.04"	"2.256"
##	"-1.792"	"0"	"2.81"	"1.568"
##	"-1.794"	"6"	"12.1"	"3.401"
##	"-1.795"	"64"	"79.33"	"8.539"
##	"-1.795"	"0"	"2.97"	"1.654"
##	"-1.795"	"11"	"18.72"	"4.302"
##	"-1.795"	"11"	"18.72"	"4.302"
##	"-1.796"	"0"	"4.07"	"2.266"
##	"-1.797"	"5"	"11.27"	"3.49"
##	"-1.797"	"0"	"3.87"	"2.154"
##	"-1.797"	"0"	"3.17"	"1.764"
##	"-1.797"	"4"	"9.66"	"3.15"
##	"-1.797"	"2"	"6.81"	"2.677"
##	"-1.798"	"1"	"4.5"	"1.946"
##	"-1.798"	"1"	"4.8"	"2.113"
##	"-1.798"	"5"	"11.24"	"3.47"
##	"-1.8"	"0"	"3.01"	"1.673"
##	"-1.8"	"0"	"3.13"	"1.739"

##	"-1.8"	"0"	"3.9"	"2.167"
##	"-1.801"	"0"	"3.18"	"1.766"
##	"-1.801"	"0"	"3.18"	"1.766"
##	"-1.802"	"313"	"355.88"	"23.795"
##	"-1.803"	"0"	"2.45"	"1.359"
##	"-1.804"	"0"	"3.14"	"1.741"
##	"-1.804"	"0"	"3.37"	"1.868"
##	"-1.805"	"0"	"3.36"	"1.861"
##	"-1.805"	"5"	"12.03"	"3.894"
##	"-1.805"	"0"	"2.85"	"1.579"
##	"-1.805"	"2"	"6.68"	"2.593"
##	"-1.805"	"0"	"2.85"	"1.579"
##	"-1.805"	"0"	"2.85"	"1.579"
##	"-1.807"	"3"	"7.77"	"2.639"
##	"-1.807"	"0"	"3.8"	"2.103"
##	"-1.808"	"0"	"3.1"	"1.714"
##	"-1.808"	"1"	"5.05"	"2.24"
##	"-1.81"	"1"	"4.75"	"2.071"
##	"-1.81"	"29"	"39.71"	"5.916"
##	"-1.811"	"0"	"3.29"	"1.816"
##	"-1.811"	"2"	"6.75"	"2.622"
##	"-1.811"	"1"	"4.29"	"1.816"
##	"-1.812"	"4"	"9.58"	"3.079"
##	"-1.812"	"0"	"2.49"	"1.374"
##	"-1.813"	"0"	"3.24"	"1.787"
##	"-1.813"	"1"	"4.64"	"2.008"
##	"-1.814"	"0"	"3.27"	"1.803"
##	"-1.815"	"0"	"2.3"	"1.267"
##	"-1.815"	"0"	"3.02"	"1.664"
##	"-1.816"	"4"	"9.37"	"2.956"
##	"-1.816"	"75"	"90.95"	"8.783"
##	"-1.816"	"3"	"8.3"	"2.918"
##	"-1.816"	"1"	"5.49"	"2.472"
##	"-1.816"	"1"	"5.49"	"2.472"
##	"-1.816"	"1"	"5.49"	"2.472"
##	"-1.817"	"9"	"16.26"	"3.997"
##	"-1.817"	"0"	"2.83"	"1.557"
##	"-1.817"	"3"	"7.52"	"2.488"
##	"-1.818"	"0"	"3.03"	"1.666"
##	"-1.819"	"13"	"20.09"	"3.898"
##	"-1.819"	"0"	"3.01"	"1.654"
##	"-1.82"	"122"	"144.17"	"12.18"
##	"-1.82"	"6"	"12.31"	"3.466"
##	"-1.82"	"0"	"2.6"	"1.428"
##	"-1.82"	"17"	"26.31"	"5.116"
##	"-1.821"	"1"	"4.91"	"2.147"
##	"-1.821"	"3"	"8.25"	"2.883"
##	"-1.822"	"0"	"2.49"	"1.367"
##	"-1.822"	"0"	"2.81"	"1.542"
##	"-1.823"	"92"	"110.93"	"10.384"
##	"-1.824"	"105"	"124.98"	"10.954"
##	"-1.824"	"3"	"7.95"	"2.713"
##	"-1.824"	"8"	"14.63"	"3.634"
##	"-1.824"	"0"	"3.33"	"1.826"

##	"-1.824"	"0"	"3.18"	"1.743"
##	"-1.825"	"0"	"3.27"	"1.791"
##	"-1.825"	"2"	"6.67"	"2.559"
##	"-1.825"	"2"	"6.67"	"2.559"
##	"-1.825"	"5"	"10.11"	"2.799"
##	"-1.827"	"0"	"3.35"	"1.833"
##	"-1.827"	"4"	"9.66"	"3.098"
##	"-1.827"	"2"	"6.82"	"2.638"
##	"-1.828"	"0"	"3.46"	"1.893"
##	"-1.828"	"0"	"3.19"	"1.745"
##	"-1.829"	"15"	"23.88"	"4.856"
##	"-1.829"	"7"	"12.29"	"2.893"
##	"-1.829"	"16"	"25"	"4.92"
##	"-1.83"	"36"	"48.27"	"6.706"
##	"-1.83"	"2"	"7.28"	"2.885"
##	"-1.83"	"19"	"29.03"	"5.482"
##	"-1.83"	"4"	"8.79"	"2.618"
##	"-1.83"	"20"	"31.14"	"6.089"
##	"-1.83"	"0"	"3.21"	"1.754"
##	"-1.83"	"39"	"52.33"	"7.282"
##	"-1.831"	"0"	"3.74"	"2.043"
##	"-1.832"	"0"	"3.15"	"1.72"
##	"-1.832"	"0"	"3.15"	"1.72"
##	"-1.832"	"0"	"2.95"	"1.61"
##	"-1.832"	"3"	"7.29"	"2.341"
##	"-1.833"	"0"	"2.22"	"1.211"
##	"-1.833"	"0"	"2.22"	"1.211"
##	"-1.833"	"0"	"2.22"	"1.211"
##	"-1.834"	"0"	"3.29"	"1.794"
##	"-1.834"	"1"	"4.62"	"1.973"
##	"-1.835"	"8"	"15.36"	"4.011"
##	"-1.835"	"0"	"3.04"	"1.657"
##	"-1.835"	"0"	"3.04"	"1.657"
##	"-1.837"	"1"	"5.74"	"2.581"
##	"-1.837"	"0"	"2.86"	"1.557"
##	"-1.838"	"4"	"9.84"	"3.177"
##	"-1.838"	"0"	"3.3"	"1.795"
##	"-1.839"	"2"	"7.06"	"2.752"
##	"-1.84"	"0"	"3.29"	"1.788"
##	"-1.84"	"0"	"4.33"	"2.353"
##	"-1.841"	"3"	"8.06"	"2.748"
##	"-1.841"	"0"	"2.7"	"1.467"
##	"-1.841"	"75"	"92.49"	"9.498"
##	"-1.842"	"0"	"2.84"	"1.542"
##	"-1.842"	"11"	"18.89"	"4.283"
##	"-1.842"	"19"	"27.51"	"4.62"
##	"-1.843"	"0"	"3.88"	"2.105"
##	"-1.843"	"0"	"3.88"	"2.105"
##	"-1.843"	"2"	"6.22"	"2.29"
##	"-1.843"	"2"	"6.22"	"2.29"
##	"-1.843"	"0"	"3.88"	"2.105"
##	"-1.843"	"0"	"3.88"	"2.105"
##	"-1.843"	"0"	"3.88"	"2.105"
##	"-1.843"	"0"	"3.88"	"2.105"

##	"-1.845"	"39"	"51.62"	"6.84"
##	"-1.846"	"0"	"3.75"	"2.032"
##	"-1.846"	"6"	"12.82"	"3.694"
##	"-1.846"	"7"	"13.46"	"3.5"
##	"-1.847"	"4"	"10.75"	"3.655"
##	"-1.847"	"0"	"3.08"	"1.668"
##	"-1.847"	"0"	"3.32"	"1.797"
##	"-1.848"	"9"	"16.95"	"4.303"
##	"-1.849"	"8"	"14.34"	"3.43"
##	"-1.849"	"8"	"14.34"	"3.43"
##	"-1.849"	"8"	"14.34"	"3.43"
##	"-1.85"	"1"	"5.32"	"2.335"
##	"-1.85"	"0"	"3.11"	"1.681"
##	"-1.85"	"0"	"2.75"	"1.486"
##	"-1.85"	"0"	"3.11"	"1.681"
##	"-1.85"	"0"	"3.11"	"1.681"
##	"-1.851"	"0"	"3.34"	"1.805"
##	"-1.851"	"0"	"2.85"	"1.54"
##	"-1.851"	"0"	"3.34"	"1.805"
##	"-1.851"	"0"	"3.34"	"1.805"
##	"-1.853"	"1"	"5.39"	"2.369"
##	"-1.854"	"57"	"71.94"	"8.06"
##	"-1.856"	"9"	"16.5"	"4.041"
##	"-1.856"	"0"	"3.18"	"1.714"
##	"-1.857"	"0"	"3.11"	"1.675"
##	"-1.858"	"5"	"11.71"	"3.611"
##	"-1.858"	"0"	"2.72"	"1.464"
##	"-1.859"	"0"	"3.28"	"1.764"
##	"-1.86"	"0"	"3.43"	"1.844"
##	"-1.861"	"0"	"3.21"	"1.725"
##	"-1.862"	"2"	"6.99"	"2.68"
##	"-1.862"	"0"	"2.3"	"1.235"
##	"-1.862"	"0"	"3.4"	"1.826"
##	"-1.863"	"16"	"24.93"	"4.793"
##	"-1.864"	"1"	"5.84"	"2.597"
##	"-1.865"	"14"	"23.89"	"5.303"
##	"-1.865"	"0"	"3.17"	"1.7"
##	"-1.865"	"1"	"4.22"	"1.727"
##	"-1.865"	"2"	"6.09"	"2.193"
##	"-1.865"	"2"	"7.48"	"2.939"
##	"-1.865"	"0"	"3.94"	"2.112"
##	"-1.868"	"2"	"7.54"	"2.966"
##	"-1.868"	"0"	"3.01"	"1.611"
##	"-1.868"	"1"	"4.34"	"1.788"
##	"-1.869"	"0"	"3.33"	"1.781"
##	"-1.869"	"0"	"3.33"	"1.781"
##	"-1.869"	"0"	"3.33"	"1.781"
##	"-1.869"	"0"	"4.02"	"2.151"
##	"-1.869"	"0"	"2.95"	"1.579"
##	"-1.869"	"0"	"3.33"	"1.781"
##	"-1.869"	"0"	"3.33"	"1.781"
##	"-1.869"	"0"	"3.33"	"1.781"
##	"-1.869"	"0"	"3.33"	"1.781"
##	"-1.869"	"0"	"3.33"	"1.781"

##	"-1.87"	"3"	"7.91"	"2.625"
##	"-1.87"	"14"	"22.4"	"4.492"
##	"-1.87"	"0"	"3.56"	"1.903"
##	"-1.87"	"1"	"4.79"	"2.027"
##	"-1.871"	"7"	"14.25"	"3.875"
##	"-1.871"	"0"	"4.24"	"2.266"
##	"-1.871"	"49"	"63.73"	"7.873"
##	"-1.871"	"1"	"4.98"	"2.127"
##	"-1.872"	"25"	"35.92"	"5.834"
##	"-1.873"	"1"	"4.67"	"1.959"
##	"-1.873"	"8"	"16.01"	"4.277"
##	"-1.873"	"17"	"25.74"	"4.666"
##	"-1.873"	"0"	"4.13"	"2.205"
##	"-1.874"	"130"	"150.46"	"10.92"
##	"-1.874"	"1"	"4.94"	"2.103"
##	"-1.875"	"25"	"35.18"	"5.428"
##	"-1.875"	"1"	"4.82"	"2.037"
##	"-1.875"	"0"	"4.04"	"2.155"
##	"-1.875"	"8"	"14.81"	"3.631"
##	"-1.875"	"2"	"6.99"	"2.661"
##	"-1.875"	"0"	"4.04"	"2.155"
##	"-1.876"	"181"	"208.55"	"14.687"
##	"-1.876"	"1"	"5.03"	"2.148"
##	"-1.877"	"7"	"13.66"	"3.548"
##	"-1.877"	"6"	"11.69"	"3.031"
##	"-1.877"	"0"	"2.55"	"1.359"
##	"-1.878"	"0"	"2.99"	"1.592"
##	"-1.878"	"0"	"3.02"	"1.608"
##	"-1.879"	"0"	"3.79"	"2.017"
##	"-1.879"	"0"	"3.4"	"1.809"
##	"-1.879"	"0"	"3.79"	"2.017"
##	"-1.879"	"0"	"3.4"	"1.809"
##	"-1.879"	"0"	"3.4"	"1.809"
##	"-1.879"	"0"	"3.4"	"1.809"
##	"-1.879"	"0"	"3.4"	"1.809"
##	"-1.88"	"0"	"3.69"	"1.963"
##	"-1.881"	"1"	"5.73"	"2.514"
##	"-1.881"	"0"	"3.55"	"1.888"
##	"-1.882"	"2"	"6.17"	"2.216"
##	"-1.883"	"154"	"178.08"	"12.786"
##	"-1.883"	"10"	"16.61"	"3.51"
##	"-1.883"	"1"	"4.6"	"1.912"
##	"-1.884"	"0"	"2.86"	"1.518"
##	"-1.884"	"2"	"6.87"	"2.585"
##	"-1.885"	"13"	"21.01"	"4.249"
##	"-1.887"	"2"	"6.45"	"2.359"
##	"-1.887"	"1"	"4.86"	"2.045"
##	"-1.888"	"45"	"60.04"	"7.967"
##	"-1.888"	"1"	"5.1"	"2.172"
##	"-1.888"	"0"	"3"	"1.589"
##	"-1.889"	"6"	"12.47"	"3.424"
##	"-1.891"	"1"	"5.47"	"2.363"
##	"-1.891"	"2"	"6.9"	"2.592"
##	"-1.891"	"7"	"14.36"	"3.891"

##	"-1.891"	"2"	"6.39"	"2.322"
##	"-1.891"	"3"	"7.94"	"2.612"
##	"-1.891"	"2"	"6.39"	"2.322"
##	"-1.891"	"0"	"3.31"	"1.751"
##	"-1.891"	"2"	"6.39"	"2.322"
##	"-1.891"	"2"	"6.39"	"2.322"
##	"-1.892"	"14"	"24.88"	"5.751"
##	"-1.892"	"2"	"6.55"	"2.405"
##	"-1.893"	"4"	"11"	"3.698"
##	"-1.894"	"1"	"5.12"	"2.176"
##	"-1.894"	"3"	"8.25"	"2.772"
##	"-1.894"	"0"	"3.33"	"1.758"
##	"-1.895"	"4"	"9.37"	"2.834"
##	"-1.896"	"1"	"5.29"	"2.262"
##	"-1.896"	"2"	"7.62"	"2.964"
##	"-1.896"	"0"	"3.65"	"1.925"
##	"-1.897"	"0"	"3.75"	"1.977"
##	"-1.897"	"3"	"8.37"	"2.831"
##	"-1.897"	"2"	"6.28"	"2.257"
##	"-1.898"	"1"	"4.91"	"2.06"
##	"-1.899"	"0"	"4.87"	"2.565"
##	"-1.9"	"1"	"5.6"	"2.42"
##	"-1.9"	"0"	"3.07"	"1.616"
##	"-1.901"	"15"	"24.06"	"4.765"
##	"-1.902"	"23"	"33.32"	"5.427"
##	"-1.902"	"11"	"18.29"	"3.833"
##	"-1.904"	"1"	"5.28"	"2.248"
##	"-1.904"	"1"	"5.28"	"2.248"
##	"-1.906"	"3"	"7.85"	"2.544"
##	"-1.906"	"28"	"38.95"	"5.744"
##	"-1.906"	"7"	"14.41"	"3.888"
##	"-1.906"	"25"	"35.89"	"5.714"
##	"-1.907"	"0"	"3.07"	"1.61"
##	"-1.907"	"0"	"3.37"	"1.768"
##	"-1.907"	"0"	"4.53"	"2.376"
##	"-1.908"	"2"	"6.76"	"2.495"
##	"-1.908"	"4"	"9.77"	"3.025"
##	"-1.909"	"4"	"9.19"	"2.718"
##	"-1.909"	"2"	"6.26"	"2.232"
##	"-1.909"	"0"	"3.4"	"1.781"
##	"-1.91"	"0"	"3.83"	"2.005"
##	"-1.91"	"1"	"6.38"	"2.817"
##	"-1.91"	"150"	"175.28"	"13.232"
##	"-1.91"	"7"	"15.28"	"4.335"
##	"-1.911"	"9"	"16.79"	"4.076"
##	"-1.911"	"1"	"4.95"	"2.066"
##	"-1.913"	"6"	"12.37"	"3.329"
##	"-1.913"	"32"	"43.75"	"6.142"
##	"-1.914"	"0"	"2.62"	"1.369"
##	"-1.914"	"0"	"3.76"	"1.965"
##	"-1.914"	"8"	"16.57"	"4.477"
##	"-1.915"	"12"	"21.03"	"4.715"
##	"-1.916"	"0"	"3.62"	"1.89"
##	"-1.917"	"5"	"11.79"	"3.543"

##	"-1.917"	"0"	"3.64"	"1.899"
##	"-1.918"	"0"	"2.96"	"1.543"
##	"-1.918"	"2"	"6.44"	"2.315"
##	"-1.919"	"28"	"38.26"	"5.348"
##	"-1.92"	"0"	"2.87"	"1.495"
##	"-1.92"	"1"	"5.99"	"2.6"
##	"-1.92"	"2"	"6.74"	"2.468"
##	"-1.92"	"0"	"3.36"	"1.75"
##	"-1.92"	"0"	"3.36"	"1.75"
##	"-1.921"	"5"	"11.38"	"3.321"
##	"-1.921"	"3"	"7.89"	"2.546"
##	"-1.921"	"13"	"22.39"	"4.888"
##	"-1.921"	"0"	"3.09"	"1.609"
##	"-1.921"	"0"	"3.01"	"1.567"
##	"-1.921"	"5"	"11.5"	"3.383"
##	"-1.922"	"0"	"3.23"	"1.681"
##	"-1.922"	"2"	"7"	"2.601"
##	"-1.923"	"28"	"39.87"	"6.174"
##	"-1.924"	"0"	"4"	"2.079"
##	"-1.924"	"0"	"3.34"	"1.736"
##	"-1.924"	"3"	"8.73"	"2.978"
##	"-1.925"	"1"	"4.56"	"1.849"
##	"-1.925"	"1"	"5.44"	"2.306"
##	"-1.926"	"15"	"23.97"	"4.657"
##	"-1.926"	"8"	"16.49"	"4.407"
##	"-1.927"	"66"	"82.47"	"8.546"
##	"-1.927"	"90"	"110.03"	"10.397"
##	"-1.927"	"0"	"3.19"	"1.656"
##	"-1.927"	"14"	"22.31"	"4.313"
##	"-1.927"	"0"	"3.7"	"1.92"
##	"-1.928"	"1"	"4.9"	"2.023"
##	"-1.93"	"1"	"5.76"	"2.466"
##	"-1.93"	"1"	"5.76"	"2.466"
##	"-1.93"	"1"	"4.38"	"1.751"
##	"-1.93"	"0"	"2.39"	"1.238"
##	"-1.93"	"1"	"4.38"	"1.751"
##	"-1.933"	"0"	"2.58"	"1.335"
##	"-1.934"	"0"	"3.46"	"1.789"
##	"-1.935"	"10"	"17.39"	"3.819"
##	"-1.935"	"1"	"5.73"	"2.445"
##	"-1.935"	"0"	"3.11"	"1.607"
##	"-1.936"	"8"	"15.84"	"4.049"
##	"-1.938"	"3"	"8.02"	"2.59"
##	"-1.938"	"1"	"5.1"	"2.115"
##	"-1.939"	"12"	"20.36"	"4.312"
##	"-1.94"	"1"	"5.7"	"2.423"
##	"-1.941"	"1"	"5.77"	"2.457"
##	"-1.941"	"7"	"14.61"	"3.921"
##	"-1.941"	"0"	"2.79"	"1.438"
##	"-1.942"	"0"	"3.56"	"1.833"
##	"-1.942"	"4"	"9.53"	"2.848"
##	"-1.943"	"1"	"4.85"	"1.982"
##	"-1.945"	"4"	"9.8"	"2.981"
##	"-1.945"	"5"	"11.35"	"3.264"

##	"-1.946"	"8"	"16.13"	"4.177"
##	"-1.946"	"0"	"4.11"	"2.112"
##	"-1.947"	"0"	"4.51"	"2.316"
##	"-1.947"	"11"	"18.85"	"4.031"
##	"-1.947"	"31"	"41.82"	"5.557"
##	"-1.948"	"1"	"4.57"	"1.833"
##	"-1.948"	"0"	"3.57"	"1.833"
##	"-1.948"	"2"	"7"	"2.566"
##	"-1.948"	"0"	"3.9"	"2.003"
##	"-1.949"	"0"	"3.43"	"1.76"
##	"-1.951"	"22"	"32.28"	"5.269"
##	"-1.952"	"24"	"34.71"	"5.487"
##	"-1.952"	"0"	"4.27"	"2.187"
##	"-1.953"	"0"	"3.46"	"1.772"
##	"-1.954"	"0"	"3.57"	"1.827"
##	"-1.957"	"3"	"7.93"	"2.52"
##	"-1.957"	"42"	"55.25"	"6.769"
##	"-1.958"	"1"	"5.37"	"2.232"
##	"-1.958"	"1"	"5.41"	"2.252"
##	"-1.959"	"0"	"3.91"	"1.995"
##	"-1.96"	"0"	"3.62"	"1.847"
##	"-1.962"	"0"	"3.01"	"1.534"
##	"-1.962"	"0"	"4.34"	"2.212"
##	"-1.962"	"3"	"7.42"	"2.253"
##	"-1.963"	"0"	"3.49"	"1.778"
##	"-1.965"	"0"	"3.25"	"1.654"
##	"-1.965"	"46"	"61.06"	"7.664"
##	"-1.966"	"1"	"5.6"	"2.34"
##	"-1.966"	"135"	"158.64"	"12.024"
##	"-1.966"	"2"	"7.64"	"2.869"
##	"-1.966"	"1"	"5.6"	"2.34"
##	"-1.966"	"1"	"5.6"	"2.34"
##	"-1.967"	"0"	"3.09"	"1.571"
##	"-1.967"	"0"	"3.09"	"1.571"
##	"-1.967"	"5"	"12.04"	"3.579"
##	"-1.968"	"0"	"3.85"	"1.956"
##	"-1.969"	"21"	"33.9"	"6.553"
##	"-1.97"	"1"	"4.96"	"2.01"
##	"-1.97"	"1"	"4.96"	"2.01"
##	"-1.97"	"1"	"4.96"	"2.01"
##	"-1.971"	"2"	"6.7"	"2.385"
##	"-1.971"	"0"	"4.09"	"2.075"
##	"-1.971"	"2"	"7.41"	"2.745"
##	"-1.972"	"2"	"7.39"	"2.734"
##	"-1.973"	"0"	"3.65"	"1.85"
##	"-1.974"	"188"	"211.6"	"11.955"
##	"-1.975"	"4"	"11.29"	"3.691"
##	"-1.975"	"2"	"6.45"	"2.254"
##	"-1.975"	"2"	"6.45"	"2.254"
##	"-1.975"	"2"	"6.45"	"2.254"
##	"-1.975"	"2"	"6.45"	"2.254"
##	"-1.977"	"0"	"3.42"	"1.73"
##	"-1.978"	"0"	"3.97"	"2.007"
##	"-1.978"	"664"	"736.44"	"36.627"

##	"-1.978"	"1"	"5.03"	"2.037"
##	"-1.978"	"0"	"3.57"	"1.805"
##	"-1.979"	"1"	"5.96"	"2.506"
##	"-1.979"	"4"	"10.58"	"3.325"
##	"-1.979"	"3"	"8.63"	"2.845"
##	"-1.981"	"3"	"10.26"	"3.664"
##	"-1.982"	"2"	"7.72"	"2.885"
##	"-1.983"	"0"	"3.9"	"1.967"
##	"-1.983"	"0"	"3.9"	"1.967"
##	"-1.983"	"0"	"3.9"	"1.967"
##	"-1.983"	"0"	"3.48"	"1.755"
##	"-1.983"	"0"	"3.48"	"1.755"
##	"-1.983"	"0"	"3.48"	"1.755"
##	"-1.983"	"0"	"3.48"	"1.755"
##	"-1.983"	"0"	"3.48"	"1.755"
##	"-1.984"	"0"	"4.16"	"2.097"
##	"-1.984"	"4"	"10.72"	"3.388"
##	"-1.984"	"0"	"3.72"	"1.875"
##	"-1.985"	"134"	"161.65"	"13.929"
##	"-1.985"	"1"	"4.91"	"1.97"
##	"-1.987"	"1"	"5.21"	"2.119"
##	"-1.987"	"7"	"14.2"	"3.624"
##	"-1.988"	"0"	"4.13"	"2.078"
##	"-1.989"	"0"	"4.07"	"2.046"
##	"-1.989"	"0"	"3.48"	"1.749"
##	"-1.989"	"0"	"3.35"	"1.684"
##	"-1.989"	"0"	"5.37"	"2.699"
##	"-1.99"	"9"	"17.21"	"4.125"
##	"-1.99"	"1"	"5.71"	"2.367"
##	"-1.99"	"0"	"3.98"	"2"
##	"-1.99"	"22"	"33.52"	"5.788"
##	"-1.991"	"0"	"3.54"	"1.778"
##	"-1.991"	"6"	"13.61"	"3.822"
##	"-1.991"	"2"	"7.49"	"2.758"
##	"-1.992"	"0"	"4.55"	"2.285"
##	"-1.993"	"311"	"357.72"	"23.443"
##	"-1.994"	"2"	"8.01"	"3.013"
##	"-1.994"	"1"	"5.4"	"2.207"
##	"-1.994"	"3"	"9.96"	"3.49"
##	"-1.996"	"1"	"5.64"	"2.325"
##	"-1.998"	"3"	"8.64"	"2.823"
##	"-1.998"	"11"	"19.96"	"4.485"
##	"-1.998"	"0"	"4.28"	"2.142"
##	"-1.999"	"5"	"13.01"	"4.006"
##	"-1.999"	"0"	"3.7"	"1.85"
##	"-2"	"3"	"8.74"	"2.87"
##	"-2"	"8"	"15.32"	"3.659"
##	"-2"	"30"	"42.04"	"6.02"
##	"-2.001"	"5"	"11.5"	"3.249"
##	"-2.002"	"6"	"12.77"	"3.381"
##	"-2.003"	"38"	"53.16"	"7.57"
##	"-2.003"	"1"	"5.1"	"2.047"
##	"-2.004"	"0"	"4.15"	"2.071"
##	"-2.004"	"2"	"6.97"	"2.48"

##	"-2.005"	"13"	"23.52"	"5.246"
##	"-2.005"	"0"	"3.88"	"1.935"
##	"-2.006"	"8"	"15.26"	"3.62"
##	"-2.006"	"6"	"13.25"	"3.614"
##	"-2.007"	"0"	"3.72"	"1.854"
##	"-2.007"	"1"	"5.1"	"2.042"
##	"-2.007"	"0"	"4.46"	"2.222"
##	"-2.008"	"10"	"17.87"	"3.92"
##	"-2.008"	"4"	"9.18"	"2.58"
##	"-2.008"	"1"	"5.22"	"2.101"
##	"-2.009"	"0"	"4.62"	"2.3"
##	"-2.009"	"0"	"5.3"	"2.638"
##	"-2.009"	"0"	"4.58"	"2.279"
##	"-2.009"	"17"	"28.62"	"5.785"
##	"-2.01"	"0"	"3.56"	"1.771"
##	"-2.011"	"1"	"5.41"	"2.193"
##	"-2.011"	"14"	"23.35"	"4.65"
##	"-2.012"	"3"	"9.14"	"3.052"
##	"-2.013"	"4"	"10.85"	"3.403"
##	"-2.014"	"2"	"7.23"	"2.597"
##	"-2.014"	"7"	"14.41"	"3.679"
##	"-2.014"	"2"	"6.82"	"2.393"
##	"-2.015"	"0"	"3.61"	"1.792"
##	"-2.015"	"0"	"3.59"	"1.781"
##	"-2.015"	"2"	"7.52"	"2.739"
##	"-2.015"	"0"	"3.59"	"1.781"
##	"-2.016"	"7"	"14.72"	"3.83"
##	"-2.016"	"0"	"3.48"	"1.726"
##	"-2.017"	"11"	"20.93"	"4.924"
##	"-2.017"	"101"	"122.18"	"10.5"
##	"-2.017"	"13"	"22.1"	"4.511"
##	"-2.018"	"13"	"23.84"	"5.372"
##	"-2.019"	"0"	"3.97"	"1.967"
##	"-2.019"	"0"	"3.03"	"1.501"
##	"-2.019"	"144"	"168.83"	"12.299"
##	"-2.019"	"0"	"3.03"	"1.501"
##	"-2.019"	"0"	"3.03"	"1.501"
##	"-2.019"	"0"	"3.17"	"1.57"
##	"-2.02"	"0"	"4.37"	"2.163"
##	"-2.022"	"2"	"7.13"	"2.537"
##	"-2.022"	"1"	"5.67"	"2.31"
##	"-2.022"	"0"	"3.59"	"1.776"
##	"-2.023"	"0"	"3.48"	"1.72"
##	"-2.023"	"0"	"4.05"	"2.002"
##	"-2.023"	"0"	"3.36"	"1.661"
##	"-2.024"	"1"	"4.92"	"1.937"
##	"-2.026"	"0"	"3.35"	"1.654"
##	"-2.026"	"1"	"4.93"	"1.94"
##	"-2.029"	"0"	"3.4"	"1.676"
##	"-2.03"	"14"	"23.08"	"4.474"
##	"-2.03"	"4"	"10.61"	"3.256"
##	"-2.03"	"4"	"10.61"	"3.256"
##	"-2.031"	"0"	"4.08"	"2.008"
##	"-2.031"	"3"	"8.54"	"2.728"

##	"-2.032"	"2"	"6.62"	"2.273"
##	"-2.032"	"0"	"5.06"	"2.49"
##	"-2.032"	"0"	"4.18"	"2.057"
##	"-2.033"	"5"	"11.47"	"3.183"
##	"-2.033"	"4"	"10.53"	"3.211"
##	"-2.033"	"19"	"28.98"	"4.909"
##	"-2.034"	"35"	"49.39"	"7.075"
##	"-2.034"	"2"	"7.33"	"2.621"
##	"-2.035"	"2"	"7.24"	"2.575"
##	"-2.035"	"2"	"7.84"	"2.87"
##	"-2.036"	"3"	"9.13"	"3.011"
##	"-2.037"	"0"	"4.31"	"2.116"
##	"-2.037"	"3"	"8.41"	"2.656"
##	"-2.037"	"3"	"8.41"	"2.656"
##	"-2.038"	"3"	"9.12"	"3.003"
##	"-2.038"	"3"	"9.12"	"3.003"
##	"-2.038"	"3"	"9.63"	"3.253"
##	"-2.039"	"4"	"10.33"	"3.104"
##	"-2.041"	"0"	"3.61"	"1.769"
##	"-2.041"	"0"	"3.45"	"1.69"
##	"-2.041"	"0"	"3.63"	"1.779"
##	"-2.041"	"6"	"13.57"	"3.71"
##	"-2.041"	"1"	"5.43"	"2.171"
##	"-2.043"	"2"	"7.91"	"2.892"
##	"-2.043"	"0"	"3.27"	"1.601"
##	"-2.043"	"2"	"8.62"	"3.24"
##	"-2.045"	"5"	"12.77"	"3.8"
##	"-2.045"	"30"	"42.63"	"6.175"
##	"-2.046"	"1"	"5.49"	"2.195"
##	"-2.046"	"0"	"4.19"	"2.048"
##	"-2.047"	"12"	"21.96"	"4.866"
##	"-2.047"	"298"	"344.91"	"22.918"
##	"-2.047"	"0"	"3.77"	"1.841"
##	"-2.048"	"33"	"46.12"	"6.408"
##	"-2.049"	"9"	"17.13"	"3.969"
##	"-2.049"	"1"	"5.94"	"2.411"
##	"-2.051"	"0"	"3.8"	"1.853"
##	"-2.051"	"0"	"3.8"	"1.853"
##	"-2.052"	"0"	"4.15"	"2.022"
##	"-2.053"	"7"	"16.21"	"4.486"
##	"-2.053"	"9"	"16.03"	"3.424"
##	"-2.053"	"0"	"3.31"	"1.612"
##	"-2.053"	"0"	"3.31"	"1.612"
##	"-2.053"	"0"	"3.31"	"1.612"
##	"-2.054"	"2"	"8.84"	"3.329"
##	"-2.054"	"0"	"3.46"	"1.684"
##	"-2.055"	"1"	"5.07"	"1.981"
##	"-2.057"	"2"	"5.97"	"1.93"
##	"-2.057"	"2"	"8.11"	"2.971"
##	"-2.059"	"211"	"242.02"	"15.066"
##	"-2.059"	"96"	"118.22"	"10.791"
##	"-2.06"	"4"	"9.65"	"2.743"
##	"-2.06"	"4"	"9.65"	"2.743"
##	"-2.06"	"4"	"9.65"	"2.743"

##	"-2.06"	"4"	"9.65"	"2.743"
##	"-2.06"	"4"	"9.65"	"2.743"
##	"-2.06"	"7"	"14.82"	"3.796"
##	"-2.061"	"0"	"5.3"	"2.572"
##	"-2.062"	"3"	"8.6"	"2.715"
##	"-2.062"	"1"	"5.63"	"2.246"
##	"-2.062"	"0"	"4.13"	"2.003"
##	"-2.062"	"0"	"3.12"	"1.513"
##	"-2.063"	"0"	"3.24"	"1.571"
##	"-2.063"	"1"	"6.02"	"2.433"
##	"-2.063"	"0"	"4.41"	"2.137"
##	"-2.064"	"0"	"4.23"	"2.049"
##	"-2.064"	"1"	"4.55"	"1.72"
##	"-2.065"	"14"	"21.41"	"3.588"
##	"-2.067"	"9"	"17.74"	"4.227"
##	"-2.067"	"0"	"4.21"	"2.037"
##	"-2.069"	"0"	"3.46"	"1.672"
##	"-2.069"	"0"	"3.85"	"1.861"
##	"-2.069"	"1"	"4.8"	"1.837"
##	"-2.07"	"0"	"5.33"	"2.574"
##	"-2.07"	"0"	"4.37"	"2.111"
##	"-2.071"	"0"	"4.25"	"2.052"
##	"-2.071"	"0"	"3.93"	"1.898"
##	"-2.073"	"1"	"5.88"	"2.354"
##	"-2.073"	"0"	"3.44"	"1.659"
##	"-2.073"	"4"	"9.46"	"2.634"
##	"-2.074"	"0"	"4.23"	"2.039"
##	"-2.074"	"1"	"5.38"	"2.112"
##	"-2.075"	"0"	"4.14"	"1.995"
##	"-2.075"	"1"	"5.85"	"2.337"
##	"-2.075"	"2"	"5.8"	"1.831"
##	"-2.075"	"1"	"6.72"	"2.756"
##	"-2.075"	"0"	"4.72"	"2.274"
##	"-2.076"	"1"	"6.87"	"2.827"
##	"-2.077"	"49"	"64.8"	"7.608"
##	"-2.078"	"9"	"17.32"	"4.005"
##	"-2.079"	"0"	"4.85"	"2.333"
##	"-2.079"	"7"	"14.83"	"3.766"
##	"-2.08"	"0"	"3.66"	"1.759"
##	"-2.08"	"4"	"11.32"	"3.519"
##	"-2.08"	"2"	"7.86"	"2.818"
##	"-2.081"	"0"	"4.48"	"2.153"
##	"-2.083"	"0"	"3.86"	"1.853"
##	"-2.083"	"0"	"3.86"	"1.853"
##	"-2.083"	"6"	"13.39"	"3.547"
##	"-2.083"	"2"	"7.47"	"2.626"
##	"-2.083"	"0"	"3.58"	"1.718"
##	"-2.084"	"10"	"19.14"	"4.386"
##	"-2.084"	"5"	"11.3"	"3.023"
##	"-2.085"	"94"	"117.19"	"11.121"
##	"-2.086"	"0"	"4.19"	"2.009"
##	"-2.086"	"1"	"6.12"	"2.455"
##	"-2.087"	"0"	"4.16"	"1.994"
##	"-2.088"	"0"	"3.35"	"1.604"

##	"-2.089"	"288"	"324.44"	"17.443"
##	"-2.089"	"4"	"9.72"	"2.738"
##	"-2.09"	"0"	"4.45"	"2.129"
##	"-2.09"	"0"	"4.45"	"2.129"
##	"-2.09"	"0"	"3.05"	"1.459"
##	"-2.09"	"0"	"3.05"	"1.459"
##	"-2.09"	"0"	"4.45"	"2.129"
##	"-2.09"	"0"	"4.53"	"2.167"
##	"-2.09"	"0"	"3.05"	"1.459"
##	"-2.09"	"0"	"4.45"	"2.129"
##	"-2.091"	"69"	"89"	"9.566"
##	"-2.091"	"4"	"10.18"	"2.955"
##	"-2.091"	"3"	"9.77"	"3.238"
##	"-2.092"	"0"	"3.84"	"1.835"
##	"-2.092"	"5"	"12.53"	"3.6"
##	"-2.092"	"8"	"17.28"	"4.436"
##	"-2.094"	"1"	"5.89"	"2.335"
##	"-2.094"	"1"	"6.6"	"2.674"
##	"-2.094"	"0"	"4.37"	"2.087"
##	"-2.096"	"21"	"33.01"	"5.729"
##	"-2.096"	"0"	"3.74"	"1.784"
##	"-2.097"	"0"	"5.36"	"2.557"
##	"-2.097"	"1"	"6.45"	"2.599"
##	"-2.097"	"0"	"3.83"	"1.826"
##	"-2.098"	"5"	"13.16"	"3.889"
##	"-2.098"	"0"	"4"	"1.907"
##	"-2.099"	"0"	"4.27"	"2.034"
##	"-2.099"	"0"	"3.2"	"1.524"
##	"-2.1"	"0"	"3.5"	"1.667"
##	"-2.101"	"1"	"4.9"	"1.856"
##	"-2.101"	"1"	"5.42"	"2.104"
##	"-2.102"	"0"	"5.19"	"2.469"
##	"-2.102"	"0"	"5.19"	"2.469"
##	"-2.102"	"1"	"6.73"	"2.726"
##	"-2.102"	"8"	"17.11"	"4.334"
##	"-2.103"	"3"	"8.72"	"2.719"
##	"-2.104"	"0"	"4.52"	"2.148"
##	"-2.104"	"0"	"4.52"	"2.148"
##	"-2.104"	"0"	"4.52"	"2.148"
##	"-2.104"	"0"	"4.52"	"2.148"
##	"-2.104"	"0"	"4.18"	"1.987"
##	"-2.104"	"0"	"4.18"	"1.987"
##	"-2.104"	"0"	"4.13"	"1.963"
##	"-2.105"	"15"	"24.4"	"4.465"
##	"-2.106"	"0"	"5.09"	"2.417"
##	"-2.106"	"11"	"19.5"	"4.036"
##	"-2.108"	"44"	"61.58"	"8.339"
##	"-2.109"	"6"	"12.93"	"3.285"
##	"-2.109"	"1"	"5.98"	"2.361"
##	"-2.11"	"8"	"15.67"	"3.635"
##	"-2.111"	"8"	"15.54"	"3.572"
##	"-2.111"	"2"	"7.12"	"2.426"
##	"-2.111"	"14"	"24.63"	"5.035"
##	"-2.112"	"2"	"7.15"	"2.439"

##	"-2.113"	"0"	"3.1"	"1.467"
##	"-2.114"	"3"	"8.41"	"2.559"
##	"-2.115"	"26"	"37.57"	"5.47"
##	"-2.115"	"0"	"3.97"	"1.877"
##	"-2.116"	"0"	"5.33"	"2.519"
##	"-2.116"	"1"	"5.05"	"1.914"
##	"-2.117"	"0"	"4.39"	"2.074"
##	"-2.117"	"0"	"4.39"	"2.074"
##	"-2.118"	"0"	"4.32"	"2.039"
##	"-2.118"	"0"	"4.79"	"2.262"
##	"-2.119"	"1"	"6.11"	"2.412"
##	"-2.119"	"13"	"22.36"	"4.416"
##	"-2.12"	"0"	"4.83"	"2.279"
##	"-2.121"	"3"	"9.69"	"3.155"
##	"-2.121"	"1"	"6.23"	"2.465"
##	"-2.121"	"1"	"6.23"	"2.465"
##	"-2.122"	"0"	"3.67"	"1.729"
##	"-2.122"	"2"	"6.39"	"2.069"
##	"-2.122"	"97"	"118.37"	"10.072"
##	"-2.123"	"0"	"3.75"	"1.766"
##	"-2.124"	"0"	"3.3"	"1.554"
##	"-2.124"	"0"	"3.3"	"1.554"
##	"-2.124"	"1"	"6.57"	"2.622"
##	"-2.124"	"0"	"3.3"	"1.554"
##	"-2.124"	"0"	"3.3"	"1.554"
##	"-2.124"	"0"	"3.3"	"1.554"
##	"-2.126"	"0"	"3.11"	"1.463"
##	"-2.126"	"0"	"3.11"	"1.463"
##	"-2.126"	"0"	"3.11"	"1.463"
##	"-2.127"	"0"	"4.99"	"2.346"
##	"-2.127"	"0"	"3.48"	"1.636"
##	"-2.128"	"6"	"13.35"	"3.454"
##	"-2.128"	"7"	"14.61"	"3.576"
##	"-2.128"	"6"	"13.22"	"3.392"
##	"-2.129"	"2"	"8.79"	"3.189"
##	"-2.13"	"0"	"4.67"	"2.193"
##	"-2.13"	"2"	"6.41"	"2.07"
##	"-2.13"	"1"	"6.08"	"2.385"
##	"-2.131"	"3"	"10.27"	"3.411"
##	"-2.131"	"7"	"14.79"	"3.655"
##	"-2.131"	"1"	"6.82"	"2.732"
##	"-2.131"	"3"	"8.66"	"2.656"
##	"-2.131"	"1"	"6.66"	"2.656"
##	"-2.131"	"4"	"11.29"	"3.421"
##	"-2.132"	"6"	"14.51"	"3.991"
##	"-2.132"	"1"	"5.83"	"2.265"
##	"-2.132"	"2"	"7.67"	"2.659"
##	"-2.132"	"7"	"14.48"	"3.509"
##	"-2.133"	"2"	"8.62"	"3.104"
##	"-2.133"	"17"	"27.44"	"4.893"
##	"-2.133"	"6"	"13.82"	"3.666"
##	"-2.133"	"8"	"16.32"	"3.9"
##	"-2.134"	"3"	"9.57"	"3.079"
##	"-2.134"	"132"	"158.67"	"12.497"

##	"-2.136"	"58"	"76.88"	"8.84"
##	"-2.136"	"3"	"9.18"	"2.893"
##	"-2.136"	"11"	"21.33"	"4.837"
##	"-2.137"	"1"	"6.31"	"2.485"
##	"-2.137"	"25"	"36.42"	"5.343"
##	"-2.139"	"0"	"4.25"	"1.987"
##	"-2.139"	"0"	"5.17"	"2.417"
##	"-2.141"	"3"	"10.35"	"3.433"
##	"-2.142"	"0"	"4.49"	"2.096"
##	"-2.142"	"6"	"13.14"	"3.333"
##	"-2.142"	"0"	"4.49"	"2.096"
##	"-2.142"	"0"	"4.49"	"2.096"
##	"-2.142"	"0"	"4.53"	"2.115"
##	"-2.142"	"6"	"15.92"	"4.631"
##	"-2.142"	"0"	"3.59"	"1.676"
##	"-2.142"	"6"	"13.32"	"3.417"
##	"-2.142"	"0"	"4.54"	"2.12"
##	"-2.142"	"0"	"4.49"	"2.096"
##	"-2.142"	"0"	"4.53"	"2.115"
##	"-2.142"	"0"	"4.49"	"2.096"
##	"-2.142"	"0"	"4.49"	"2.096"
##	"-2.142"	"0"	"4.49"	"2.096"
##	"-2.142"	"0"	"4.49"	"2.096"
##	"-2.143"	"0"	"4.67"	"2.179"
##	"-2.143"	"7"	"14.62"	"3.556"
##	"-2.143"	"5"	"12.66"	"3.574"
##	"-2.144"	"6"	"13.46"	"3.48"
##	"-2.144"	"2"	"7.98"	"2.789"
##	"-2.144"	"2"	"8.76"	"3.153"
##	"-2.144"	"0"	"3.67"	"1.712"
##	"-2.145"	"0"	"4.64"	"2.163"
##	"-2.145"	"3"	"9.98"	"3.254"
##	"-2.146"	"1"	"5.95"	"2.307"
##	"-2.146"	"1"	"6.52"	"2.572"
##	"-2.147"	"36"	"49.03"	"6.068"
##	"-2.147"	"8"	"15.7"	"3.586"
##	"-2.147"	"8"	"15.7"	"3.586"
##	"-2.147"	"8"	"15.7"	"3.586"
##	"-2.148"	"19"	"29.24"	"4.768"
##	"-2.148"	"6"	"12.39"	"2.974"
##	"-2.149"	"2"	"8.9"	"3.211"
##	"-2.15"	"0"	"4.86"	"2.261"
##	"-2.152"	"1"	"5.05"	"1.882"
##	"-2.152"	"1"	"6.79"	"2.69"
##	"-2.153"	"0"	"4.3"	"1.997"
##	"-2.153"	"10"	"19.31"	"4.324"
##	"-2.153"	"62"	"81.03"	"8.84"
##	"-2.153"	"88"	"109.74"	"10.096"
##	"-2.153"	"0"	"4.47"	"2.077"
##	"-2.153"	"0"	"5.08"	"2.36"
##	"-2.154"	"85"	"106.95"	"10.191"
##	"-2.154"	"0"	"4.18"	"1.94"
##	"-2.155"	"2"	"5.87"	"1.796"
##	"-2.155"	"0"	"4.43"	"2.056"

##	"-2.155"	"2"	"5.87"	"1.796"
##	"-2.156"	"0"	"4.15"	"1.925"
##	"-2.156"	"3"	"8.91"	"2.742"
##	"-2.157"	"1"	"7.63"	"3.074"
##	"-2.157"	"19"	"30.71"	"5.43"
##	"-2.158"	"0"	"3.68"	"1.705"
##	"-2.158"	"6"	"12.64"	"3.077"
##	"-2.158"	"0"	"3.68"	"1.705"
##	"-2.158"	"0"	"3.68"	"1.705"
##	"-2.158"	"0"	"3.68"	"1.705"
##	"-2.158"	"0"	"3.68"	"1.705"
##	"-2.16"	"4"	"10.67"	"3.088"
##	"-2.16"	"0"	"4.87"	"2.255"
##	"-2.161"	"82"	"106.22"	"11.207"
##	"-2.161"	"30"	"42.2"	"5.644"
##	"-2.161"	"7"	"14.66"	"3.545"
##	"-2.162"	"0"	"4.11"	"1.901"
##	"-2.162"	"16"	"27.55"	"5.344"
##	"-2.164"	"0"	"3.6"	"1.664"
##	"-2.164"	"5"	"12.04"	"3.253"
##	"-2.165"	"3"	"9.23"	"2.877"
##	"-2.168"	"1"	"5.11"	"1.896"
##	"-2.168"	"9"	"16.47"	"3.445"
##	"-2.169"	"0"	"4.19"	"1.932"
##	"-2.169"	"0"	"4.38"	"2.019"
##	"-2.17"	"9"	"18.02"	"4.156"
##	"-2.171"	"3"	"9.65"	"3.063"
##	"-2.173"	"3"	"8.29"	"2.434"
##	"-2.173"	"1"	"5.98"	"2.292"
##	"-2.173"	"9"	"17.9"	"4.096"
##	"-2.173"	"1"	"5.4"	"2.025"
##	"-2.173"	"1"	"5.62"	"2.126"
##	"-2.175"	"1"	"6.2"	"2.391"
##	"-2.177"	"0"	"4.23"	"1.943"
##	"-2.177"	"0"	"4.16"	"1.911"
##	"-2.178"	"56"	"73.67"	"8.113"
##	"-2.179"	"2"	"8.01"	"2.758"
##	"-2.179"	"6"	"13.45"	"3.418"
##	"-2.18"	"0"	"5.79"	"2.656"
##	"-2.18"	"6"	"14.62"	"3.954"
##	"-2.181"	"0"	"3.71"	"1.701"
##	"-2.183"	"0"	"3.65"	"1.672"
##	"-2.184"	"2"	"7.73"	"2.624"
##	"-2.184"	"14"	"22.57"	"3.924"
##	"-2.184"	"0"	"4.76"	"2.179"
##	"-2.184"	"0"	"4.91"	"2.248"
##	"-2.184"	"0"	"4.95"	"2.267"
##	"-2.185"	"0"	"3.45"	"1.579"
##	"-2.186"	"2"	"6.68"	"2.141"
##	"-2.188"	"0"	"4.21"	"1.924"
##	"-2.189"	"0"	"4.16"	"1.9"
##	"-2.19"	"0"	"4.67"	"2.132"
##	"-2.19"	"36"	"51.49"	"7.072"
##	"-2.191"	"2"	"8.01"	"2.743"

##	"-2.192"	"0"	"3.24"	"1.478"
##	"-2.193"	"9"	"16.8"	"3.556"
##	"-2.193"	"10"	"18.34"	"3.804"
##	"-2.194"	"3"	"8.76"	"2.625"
##	"-2.194"	"1"	"6.2"	"2.37"
##	"-2.194"	"6"	"14.93"	"4.071"
##	"-2.194"	"0"	"4.72"	"2.151"
##	"-2.195"	"0"	"4.77"	"2.174"
##	"-2.195"	"20"	"32.9"	"5.877"
##	"-2.197"	"0"	"4.58"	"2.085"
##	"-2.197"	"1"	"5.93"	"2.244"
##	"-2.2"	"0"	"5.68"	"2.582"
##	"-2.2"	"3"	"10.9"	"3.592"
##	"-2.201"	"11"	"20.89"	"4.494"
##	"-2.202"	"0"	"3.99"	"1.812"
##	"-2.203"	"0"	"5.29"	"2.401"
##	"-2.204"	"1"	"6.18"	"2.35"
##	"-2.204"	"5"	"12.05"	"3.198"
##	"-2.207"	"26"	"39.13"	"5.949"
##	"-2.207"	"5"	"12.43"	"3.367"
##	"-2.207"	"5"	"12.43"	"3.367"
##	"-2.207"	"5"	"12.43"	"3.367"
##	"-2.208"	"0"	"5.04"	"2.283"
##	"-2.208"	"9"	"17.34"	"3.777"
##	"-2.208"	"1"	"5.89"	"2.215"
##	"-2.209"	"8"	"17.46"	"4.282"
##	"-2.209"	"0"	"6.01"	"2.721"
##	"-2.209"	"0"	"5.14"	"2.327"
##	"-2.209"	"2"	"7.7"	"2.58"
##	"-2.209"	"1"	"7.28"	"2.843"
##	"-2.21"	"25"	"37.69"	"5.743"
##	"-2.21"	"2"	"7.73"	"2.593"
##	"-2.211"	"0"	"4.29"	"1.94"
##	"-2.212"	"1"	"6.92"	"2.677"
##	"-2.212"	"1"	"5.89"	"2.211"
##	"-2.212"	"20"	"33.36"	"6.039"
##	"-2.212"	"1"	"6.92"	"2.677"
##	"-2.213"	"0"	"4.31"	"1.947"
##	"-2.213"	"3"	"9.78"	"3.064"
##	"-2.214"	"15"	"26.02"	"4.977"
##	"-2.216"	"17"	"28.61"	"5.24"
##	"-2.217"	"0"	"4.15"	"1.872"
##	"-2.217"	"2"	"8.23"	"2.81"
##	"-2.218"	"0"	"3.34"	"1.506"
##	"-2.219"	"305"	"358.1"	"23.926"
##	"-2.222"	"0"	"5.3"	"2.385"
##	"-2.222"	"0"	"4.22"	"1.899"
##	"-2.225"	"4"	"12.22"	"3.694"
##	"-2.226"	"0"	"5.8"	"2.605"
##	"-2.227"	"0"	"5.64"	"2.533"
##	"-2.227"	"0"	"5.1"	"2.29"
##	"-2.228"	"18"	"30.38"	"5.556"
##	"-2.229"	"0"	"3.56"	"1.597"
##	"-2.229"	"0"	"4.52"	"2.027"

##	"-2.23"	"1"	"6.76"	"2.582"
##	"-2.231"	"6"	"14.11"	"3.635"
##	"-2.231"	"13"	"24.63"	"5.214"
##	"-2.232"	"24"	"37.39"	"5.998"
##	"-2.232"	"1"	"6.1"	"2.285"
##	"-2.233"	"2"	"7.88"	"2.633"
##	"-2.233"	"0"	"5.73"	"2.566"
##	"-2.233"	"0"	"6.35"	"2.844"
##	"-2.233"	"4"	"12.22"	"3.681"
##	"-2.234"	"374"	"430.47"	"25.281"
##	"-2.234"	"0"	"4.55"	"2.037"
##	"-2.234"	"1"	"8.19"	"3.218"
##	"-2.234"	"6"	"13.3"	"3.268"
##	"-2.235"	"0"	"4.89"	"2.188"
##	"-2.235"	"8"	"17.32"	"4.17"
##	"-2.235"	"2"	"7.39"	"2.412"
##	"-2.236"	"18"	"29.98"	"5.358"
##	"-2.236"	"1"	"6.58"	"2.495"
##	"-2.239"	"3"	"10"	"3.127"
##	"-2.24"	"136"	"165.13"	"13.002"
##	"-2.24"	"4"	"10.61"	"2.95"
##	"-2.24"	"6"	"14.27"	"3.692"
##	"-2.24"	"3"	"9.91"	"3.085"
##	"-2.241"	"3"	"11.17"	"3.646"
##	"-2.242"	"0"	"5.25"	"2.341"
##	"-2.242"	"0"	"4.93"	"2.199"
##	"-2.243"	"0"	"5.02"	"2.238"
##	"-2.243"	"1"	"6.29"	"2.358"
##	"-2.243"	"0"	"4.38"	"1.953"
##	"-2.243"	"31"	"44.2"	"5.886"
##	"-2.243"	"3"	"8.92"	"2.639"
##	"-2.244"	"0"	"5.51"	"2.456"
##	"-2.245"	"4"	"11.01"	"3.122"
##	"-2.247"	"0"	"4.5"	"2.003"
##	"-2.247"	"104"	"126.23"	"9.893"
##	"-2.247"	"3"	"10.76"	"3.453"
##	"-2.247"	"3"	"10.56"	"3.364"
##	"-2.248"	"15"	"27.04"	"5.356"
##	"-2.248"	"54"	"72.81"	"8.367"
##	"-2.248"	"4"	"10.77"	"3.011"
##	"-2.249"	"0"	"3.48"	"1.547"
##	"-2.249"	"3"	"9.76"	"3.005"
##	"-2.25"	"0"	"3.64"	"1.618"
##	"-2.25"	"0"	"4.19"	"1.862"
##	"-2.251"	"0"	"3.95"	"1.755"
##	"-2.251"	"0"	"3.95"	"1.755"
##	"-2.251"	"0"	"3.95"	"1.755"
##	"-2.252"	"33"	"46.48"	"5.986"
##	"-2.252"	"5"	"11.13"	"2.722"
##	"-2.253"	"0"	"5.8"	"2.574"
##	"-2.253"	"0"	"4.39"	"1.948"
##	"-2.253"	"0"	"5.32"	"2.361"
##	"-2.254"	"5"	"12.47"	"3.313"
##	"-2.254"	"46"	"62.69"	"7.404"

##	"-2.255"	"3"	"9.28"	"2.786"
##	"-2.255"	"2"	"7.37"	"2.381"
##	"-2.257"	"5"	"12.58"	"3.358"
##	"-2.258"	"3"	"8.83"	"2.582"
##	"-2.258"	"3"	"8.83"	"2.582"
##	"-2.258"	"0"	"4.51"	"1.997"
##	"-2.258"	"26"	"37.98"	"5.307"
##	"-2.258"	"12"	"21.11"	"4.035"
##	"-2.258"	"0"	"4.51"	"1.997"
##	"-2.258"	"3"	"8.83"	"2.582"
##	"-2.258"	"3"	"8.83"	"2.582"
##	"-2.259"	"43"	"62.13"	"8.468"
##	"-2.259"	"4"	"10.92"	"3.064"
##	"-2.259"	"0"	"5.18"	"2.294"
##	"-2.26"	"0"	"5.69"	"2.517"
##	"-2.261"	"0"	"4.9"	"2.167"
##	"-2.262"	"0"	"3.57"	"1.578"
##	"-2.262"	"1"	"7.56"	"2.9"
##	"-2.263"	"0"	"5.15"	"2.276"
##	"-2.264"	"1"	"6.09"	"2.248"
##	"-2.264"	"3"	"10.78"	"3.437"
##	"-2.265"	"10"	"20.58"	"4.671"
##	"-2.265"	"1"	"7.01"	"2.653"
##	"-2.266"	"0"	"4.9"	"2.163"
##	"-2.268"	"3"	"9.93"	"3.056"
##	"-2.27"	"0"	"5.48"	"2.414"
##	"-2.27"	"6"	"14.85"	"3.899"
##	"-2.27"	"1"	"6.84"	"2.573"
##	"-2.27"	"6"	"15.46"	"4.167"
##	"-2.27"	"22"	"34.92"	"5.692"
##	"-2.271"	"0"	"4.79"	"2.11"
##	"-2.273"	"8"	"17.39"	"4.131"
##	"-2.273"	"4"	"11.55"	"3.322"
##	"-2.274"	"0"	"5.43"	"2.388"
##	"-2.274"	"8"	"15.54"	"3.316"
##	"-2.275"	"8"	"16.66"	"3.806"
##	"-2.275"	"0"	"5.04"	"2.215"
##	"-2.275"	"0"	"6.51"	"2.862"
##	"-2.276"	"1"	"7.22"	"2.732"
##	"-2.277"	"0"	"4.1"	"1.801"
##	"-2.277"	"1"	"7.38"	"2.803"
##	"-2.278"	"13"	"24.08"	"4.863"
##	"-2.278"	"560"	"615.43"	"24.336"
##	"-2.28"	"1"	"6.37"	"2.356"
##	"-2.281"	"6"	"14.16"	"3.578"
##	"-2.282"	"3"	"10.54"	"3.304"
##	"-2.283"	"6"	"15.06"	"3.969"
##	"-2.283"	"0"	"4.65"	"2.037"
##	"-2.285"	"5"	"11.36"	"2.784"
##	"-2.286"	"8"	"17.4"	"4.112"
##	"-2.286"	"5"	"12.02"	"3.071"
##	"-2.287"	"86"	"115.41"	"12.861"
##	"-2.287"	"0"	"5.23"	"2.287"
##	"-2.288"	"1"	"6.38"	"2.352"

##	"-2.288"	"26"	"42.12"	"7.044"
##	"-2.289"	"0"	"6.51"	"2.844"
##	"-2.291"	"9"	"18.64"	"4.208"
##	"-2.291"	"14"	"24.57"	"4.613"
##	"-2.291"	"10"	"19.72"	"4.243"
##	"-2.292"	"70"	"95.38"	"11.073"
##	"-2.292"	"210"	"248.04"	"16.594"
##	"-2.292"	"0"	"4.74"	"2.068"
##	"-2.293"	"0"	"5.22"	"2.277"
##	"-2.293"	"0"	"4.51"	"1.967"
##	"-2.294"	"9"	"19.9"	"4.751"
##	"-2.296"	"0"	"4.39"	"1.912"
##	"-2.296"	"74"	"95.1"	"9.189"
##	"-2.298"	"5"	"12.2"	"3.133"
##	"-2.298"	"0"	"4.46"	"1.941"
##	"-2.299"	"0"	"5.33"	"2.318"
##	"-2.3"	"2"	"9.48"	"3.252"
##	"-2.301"	"0"	"5.92"	"2.573"
##	"-2.302"	"5"	"12.34"	"3.188"
##	"-2.302"	"3"	"10.33"	"3.185"
##	"-2.302"	"0"	"6.01"	"2.611"
##	"-2.303"	"3"	"9.26"	"2.718"
##	"-2.303"	"1"	"6.67"	"2.462"
##	"-2.304"	"5"	"11.59"	"2.861"
##	"-2.304"	"5"	"11.59"	"2.861"
##	"-2.304"	"5"	"11.59"	"2.861"
##	"-2.304"	"5"	"11.59"	"2.861"
##	"-2.306"	"0"	"4.58"	"1.986"
##	"-2.306"	"22"	"36.02"	"6.08"
##	"-2.306"	"0"	"4.5"	"1.951"
##	"-2.307"	"1"	"6.97"	"2.588"
##	"-2.308"	"3"	"9.49"	"2.812"
##	"-2.309"	"11"	"19.94"	"3.871"
##	"-2.309"	"0"	"6.37"	"2.758"
##	"-2.309"	"0"	"5.32"	"2.304"
##	"-2.31"	"3"	"10.44"	"3.22"
##	"-2.311"	"14"	"25.37"	"4.921"
##	"-2.311"	"0"	"7.53"	"3.258"
##	"-2.312"	"1"	"7.19"	"2.677"
##	"-2.313"	"2"	"9.1"	"3.07"
##	"-2.314"	"10"	"19.28"	"4.01"
##	"-2.314"	"0"	"4.13"	"1.785"
##	"-2.315"	"25"	"37.46"	"5.383"
##	"-2.315"	"4"	"10.11"	"2.64"
##	"-2.315"	"115"	"139.71"	"10.674"
##	"-2.316"	"3"	"11.32"	"3.593"
##	"-2.317"	"0"	"4.87"	"2.102"
##	"-2.317"	"22"	"32.99"	"4.743"
##	"-2.318"	"76"	"98.72"	"9.803"
##	"-2.318"	"1"	"6.66"	"2.442"
##	"-2.319"	"2"	"8.79"	"2.928"
##	"-2.32"	"0"	"4.92"	"2.121"
##	"-2.32"	"0"	"4.44"	"1.914"
##	"-2.321"	"0"	"5.05"	"2.176"

##	"-2.322"	"0"	"4.53"	"1.951"
##	"-2.322"	"0"	"4.87"	"2.097"
##	"-2.322"	"0"	"3.96"	"1.705"
##	"-2.323"	"0"	"4.46"	"1.92"
##	"-2.324"	"4"	"11.19"	"3.093"
##	"-2.324"	"12"	"21.88"	"4.25"
##	"-2.324"	"32"	"47.64"	"6.729"
##	"-2.325"	"6"	"13.39"	"3.178"
##	"-2.325"	"109"	"134.19"	"10.835"
##	"-2.328"	"2"	"7.56"	"2.388"
##	"-2.328"	"3"	"12.91"	"4.257"
##	"-2.329"	"81"	"106.53"	"10.963"
##	"-2.329"	"8"	"17.44"	"4.053"
##	"-2.329"	"1"	"6.42"	"2.328"
##	"-2.329"	"21"	"36.24"	"6.543"
##	"-2.329"	"2"	"8.8"	"2.92"
##	"-2.329"	"5"	"13.15"	"3.5"
##	"-2.33"	"0"	"2.96"	"1.271"
##	"-2.33"	"8"	"16.98"	"3.853"
##	"-2.331"	"0"	"4.3"	"1.845"
##	"-2.331"	"0"	"5.76"	"2.471"
##	"-2.332"	"1"	"6.54"	"2.376"
##	"-2.333"	"6"	"13.55"	"3.236"
##	"-2.333"	"0"	"4.19"	"1.796"
##	"-2.333"	"2"	"8.95"	"2.979"
##	"-2.333"	"0"	"4.19"	"1.796"
##	"-2.334"	"3"	"10.62"	"3.265"
##	"-2.334"	"1"	"6.88"	"2.52"
##	"-2.334"	"3"	"10.64"	"3.274"
##	"-2.335"	"0"	"5.62"	"2.407"
##	"-2.335"	"4"	"10.96"	"2.981"
##	"-2.339"	"4"	"10.73"	"2.877"
##	"-2.339"	"0"	"5.02"	"2.146"
##	"-2.34"	"0"	"4.27"	"1.825"
##	"-2.341"	"0"	"5.18"	"2.213"
##	"-2.342"	"0"	"4.6"	"1.964"
##	"-2.342"	"16"	"26.96"	"4.679"
##	"-2.343"	"7"	"15.28"	"3.534"
##	"-2.343"	"2"	"9.11"	"3.035"
##	"-2.344"	"0"	"4.94"	"2.107"
##	"-2.346"	"78"	"102.88"	"10.607"
##	"-2.347"	"1"	"8.53"	"3.208"
##	"-2.347"	"6"	"15.53"	"4.061"
##	"-2.348"	"0"	"5.5"	"2.342"
##	"-2.348"	"0"	"5.08"	"2.163"
##	"-2.35"	"2"	"9.84"	"3.336"
##	"-2.351"	"24"	"37.08"	"5.564"
##	"-2.351"	"28"	"44.22"	"6.9"
##	"-2.352"	"0"	"4.89"	"2.079"
##	"-2.352"	"3"	"10.26"	"3.087"
##	"-2.352"	"0"	"6.45"	"2.743"
##	"-2.353"	"0"	"3.35"	"1.424"
##	"-2.354"	"2"	"8.23"	"2.647"
##	"-2.354"	"0"	"4.23"	"1.797"

##	"-2.354"	"9"	"17.78"	"3.73"
##	"-2.355"	"27"	"42.07"	"6.398"
##	"-2.355"	"6"	"16.02"	"4.254"
##	"-2.356"	"0"	"5.4"	"2.292"
##	"-2.356"	"22"	"35.71"	"5.819"
##	"-2.358"	"10"	"20.39"	"4.406"
##	"-2.359"	"72"	"97.03"	"10.609"
##	"-2.361"	"1"	"6.74"	"2.431"
##	"-2.361"	"0"	"6.22"	"2.635"
##	"-2.361"	"9"	"20.54"	"4.887"
##	"-2.363"	"0"	"3.79"	"1.604"
##	"-2.365"	"2"	"8.75"	"2.855"
##	"-2.365"	"24"	"38.35"	"6.068"
##	"-2.366"	"5"	"12.53"	"3.183"
##	"-2.366"	"3"	"11.43"	"3.563"
##	"-2.368"	"3"	"11.65"	"3.653"
##	"-2.368"	"1"	"7.54"	"2.761"
##	"-2.368"	"2"	"9.29"	"3.079"
##	"-2.368"	"0"	"4.47"	"1.888"
##	"-2.368"	"0"	"4.47"	"1.888"
##	"-2.369"	"0"	"4.96"	"2.093"
##	"-2.37"	"6"	"14.53"	"3.6"
##	"-2.371"	"0"	"4.33"	"1.826"
##	"-2.371"	"2"	"9.07"	"2.982"
##	"-2.371"	"19"	"32.67"	"5.767"
##	"-2.373"	"62"	"83.28"	"8.966"
##	"-2.373"	"19"	"31"	"5.057"
##	"-2.374"	"4"	"13.25"	"3.896"
##	"-2.374"	"0"	"5.65"	"2.38"
##	"-2.374"	"5"	"13.96"	"3.774"
##	"-2.375"	"2"	"8.94"	"2.923"
##	"-2.375"	"0"	"4.43"	"1.865"
##	"-2.375"	"3"	"11.2"	"3.452"
##	"-2.376"	"3"	"11.04"	"3.384"
##	"-2.377"	"3"	"10.99"	"3.362"
##	"-2.377"	"0"	"3.99"	"1.679"
##	"-2.378"	"42"	"56.49"	"6.093"
##	"-2.379"	"0"	"4.92"	"2.068"
##	"-2.379"	"19"	"34.38"	"6.465"
##	"-2.381"	"22"	"34.3"	"5.165"
##	"-2.383"	"0"	"4.91"	"2.06"
##	"-2.383"	"0"	"4.56"	"1.914"
##	"-2.384"	"3"	"11.02"	"3.363"
##	"-2.384"	"21"	"35.84"	"6.224"
##	"-2.385"	"0"	"5.74"	"2.406"
##	"-2.385"	"2"	"8.22"	"2.608"
##	"-2.385"	"9"	"17.31"	"3.484"
##	"-2.386"	"0"	"5.44"	"2.28"
##	"-2.386"	"0"	"4.38"	"1.836"
##	"-2.386"	"4"	"10.82"	"2.858"
##	"-2.387"	"27"	"41.61"	"6.121"
##	"-2.388"	"4"	"12.11"	"3.396"
##	"-2.389"	"0"	"6.57"	"2.75"
##	"-2.389"	"5"	"13.17"	"3.42"

##	"-2.39"	"6"	"13.71"	"3.226"
##	"-2.39"	"54"	"72.45"	"7.719"
##	"-2.39"	"0"	"6.02"	"2.519"
##	"-2.391"	"5"	"12.9"	"3.304"
##	"-2.393"	"76"	"99.83"	"9.96"
##	"-2.393"	"5"	"12.19"	"3.004"
##	"-2.396"	"0"	"4.72"	"1.97"
##	"-2.396"	"3"	"10.4"	"3.088"
##	"-2.396"	"0"	"4.67"	"1.949"
##	"-2.397"	"15"	"28.02"	"5.433"
##	"-2.398"	"33"	"46.63"	"5.683"
##	"-2.398"	"12"	"23.21"	"4.674"
##	"-2.4"	"0"	"5.83"	"2.429"
##	"-2.4"	"0"	"5.12"	"2.133"
##	"-2.4"	"19"	"32.37"	"5.57"
##	"-2.401"	"0"	"6.16"	"2.565"
##	"-2.401"	"3"	"9.75"	"2.812"
##	"-2.402"	"21"	"35.58"	"6.069"
##	"-2.402"	"1"	"6.6"	"2.331"
##	"-2.404"	"0"	"7.32"	"3.045"
##	"-2.405"	"2"	"8.65"	"2.765"
##	"-2.406"	"1"	"6.92"	"2.461"
##	"-2.408"	"3"	"11.44"	"3.506"
##	"-2.409"	"0"	"4.66"	"1.934"
##	"-2.41"	"0"	"5.94"	"2.465"
##	"-2.41"	"7"	"17.1"	"4.191"
##	"-2.411"	"0"	"6.48"	"2.687"
##	"-2.411"	"0"	"5.59"	"2.319"
##	"-2.412"	"6"	"14.08"	"3.351"
##	"-2.412"	"0"	"5.2"	"2.156"
##	"-2.412"	"16"	"28.03"	"4.988"
##	"-2.413"	"8"	"20.1"	"5.014"
##	"-2.414"	"0"	"5.92"	"2.452"
##	"-2.414"	"13"	"24.28"	"4.673"
##	"-2.415"	"6"	"16.17"	"4.212"
##	"-2.415"	"40"	"52.41"	"5.139"
##	"-2.416"	"0"	"6.8"	"2.814"
##	"-2.416"	"3"	"9.75"	"2.794"
##	"-2.416"	"0"	"4.13"	"1.709"
##	"-2.416"	"9"	"19.85"	"4.491"
##	"-2.416"	"0"	"4.13"	"1.709"
##	"-2.418"	"3"	"11.75"	"3.619"
##	"-2.418"	"15"	"27.11"	"5.009"
##	"-2.421"	"3"	"10.18"	"2.966"
##	"-2.421"	"14"	"25.65"	"4.812"
##	"-2.423"	"15"	"28.35"	"5.509"
##	"-2.423"	"4"	"12.03"	"3.313"
##	"-2.423"	"0"	"5.28"	"2.179"
##	"-2.424"	"2"	"9.91"	"3.263"
##	"-2.424"	"35"	"52.44"	"7.196"
##	"-2.425"	"1"	"8.31"	"3.014"
##	"-2.425"	"3"	"10.57"	"3.121"
##	"-2.427"	"4"	"12.9"	"3.667"
##	"-2.428"	"45"	"60.93"	"6.56"

##	"-2.428"	"0"	"5.2"	"2.141"
##	"-2.429"	"1"	"7.27"	"2.581"
##	"-2.43"	"0"	"4.86"	"2"
##	"-2.43"	"2"	"9.03"	"2.894"
##	"-2.431"	"5"	"14.74"	"4.007"
##	"-2.431"	"3"	"10.68"	"3.159"
##	"-2.432"	"0"	"4.88"	"2.006"
##	"-2.432"	"0"	"4.35"	"1.789"
##	"-2.432"	"18"	"31.93"	"5.728"
##	"-2.432"	"33"	"48.79"	"6.492"
##	"-2.433"	"49"	"67.83"	"7.741"
##	"-2.433"	"2"	"9.51"	"3.086"
##	"-2.433"	"0"	"5.39"	"2.215"
##	"-2.434"	"0"	"4.97"	"2.042"
##	"-2.434"	"21"	"34.67"	"5.616"
##	"-2.435"	"0"	"4.39"	"1.803"
##	"-2.439"	"1"	"7.03"	"2.472"
##	"-2.44"	"0"	"5.51"	"2.259"
##	"-2.44"	"10"	"22.34"	"5.058"
##	"-2.441"	"11"	"22.02"	"4.515"
##	"-2.441"	"1"	"6.78"	"2.368"
##	"-2.442"	"1"	"7.49"	"2.657"
##	"-2.442"	"1"	"8.88"	"3.226"
##	"-2.443"	"8"	"18.38"	"4.249"
##	"-2.443"	"3"	"10.87"	"3.221"
##	"-2.443"	"2"	"9.39"	"3.025"
##	"-2.443"	"2"	"9.39"	"3.025"
##	"-2.444"	"0"	"6.53"	"2.672"
##	"-2.444"	"8"	"18.01"	"4.096"
##	"-2.445"	"2"	"9.21"	"2.948"
##	"-2.445"	"1"	"7.02"	"2.462"
##	"-2.445"	"118"	"145.29"	"11.159"
##	"-2.445"	"3"	"9.46"	"2.642"
##	"-2.446"	"82"	"107.49"	"10.419"
##	"-2.446"	"1"	"6.96"	"2.437"
##	"-2.446"	"0"	"5.15"	"2.105"
##	"-2.446"	"19"	"33.16"	"5.789"
##	"-2.446"	"1"	"6.96"	"2.437"
##	"-2.446"	"0"	"5.15"	"2.105"
##	"-2.446"	"9"	"18.87"	"4.034"
##	"-2.446"	"1"	"6.96"	"2.437"
##	"-2.446"	"1"	"6.96"	"2.437"
##	"-2.446"	"1"	"6.96"	"2.437"
##	"-2.446"	"1"	"6.96"	"2.437"
##	"-2.446"	"1"	"6.96"	"2.437"
##	"-2.446"	"1"	"6.96"	"2.437"
##	"-2.448"	"6"	"14.96"	"3.66"
##	"-2.448"	"0"	"6.32"	"2.582"
##	"-2.451"	"4"	"13.19"	"3.749"
##	"-2.452"	"5"	"13.49"	"3.463"
##	"-2.452"	"14"	"29.97"	"6.513"
##	"-2.453"	"0"	"4.98"	"2.03"
##	"-2.454"	"33"	"49.84"	"6.862"
##	"-2.455"	"33"	"49.86"	"6.867"

##	"-2.457"	"19"	"31.84"	"5.226"
##	"-2.458"	"7"	"18.14"	"4.533"
##	"-2.459"	"45"	"63.22"	"7.411"
##	"-2.46"	"0"	"6.39"	"2.597"
##	"-2.46"	"1"	"6.38"	"2.187"
##	"-2.46"	"10"	"22.49"	"5.078"
##	"-2.46"	"6"	"13.97"	"3.239"
##	"-2.461"	"9"	"18.01"	"3.661"
##	"-2.462"	"1"	"6.88"	"2.388"
##	"-2.465"	"0"	"6.07"	"2.463"
##	"-2.465"	"132"	"158.65"	"10.812"
##	"-2.465"	"1"	"7.65"	"2.698"
##	"-2.466"	"38"	"56.18"	"7.374"
##	"-2.467"	"109"	"139.72"	"12.454"
##	"-2.467"	"0"	"7.37"	"2.987"
##	"-2.467"	"15"	"27.07"	"4.893"
##	"-2.468"	"33"	"50.07"	"6.915"
##	"-2.468"	"88"	"117.31"	"11.875"
##	"-2.468"	"0"	"4.86"	"1.97"
##	"-2.469"	"0"	"5.97"	"2.418"
##	"-2.469"	"0"	"5.75"	"2.328"
##	"-2.47"	"0"	"6.02"	"2.437"
##	"-2.471"	"0"	"6.06"	"2.453"
##	"-2.471"	"0"	"5.88"	"2.38"
##	"-2.475"	"3"	"9.78"	"2.74"
##	"-2.476"	"11"	"23.5"	"5.048"
##	"-2.476"	"4"	"11.46"	"3.013"
##	"-2.477"	"0"	"5.37"	"2.168"
##	"-2.48"	"1"	"8.21"	"2.907"
##	"-2.482"	"1"	"7.49"	"2.615"
##	"-2.483"	"27"	"44.3"	"6.968"
##	"-2.483"	"4"	"12.7"	"3.503"
##	"-2.485"	"70"	"93.92"	"9.626"
##	"-2.486"	"0"	"6.09"	"2.45"
##	"-2.489"	"147"	"175.77"	"11.557"
##	"-2.489"	"6"	"16.22"	"4.106"
##	"-2.491"	"1"	"5.82"	"1.935"
##	"-2.492"	"0"	"6.72"	"2.697"
##	"-2.494"	"5"	"15.31"	"4.133"
##	"-2.496"	"0"	"5.39"	"2.16"
##	"-2.496"	"6"	"15.66"	"3.87"
##	"-2.496"	"2"	"9.01"	"2.809"
##	"-2.496"	"4"	"11.53"	"3.017"
##	"-2.499"	"64"	"87.03"	"9.217"
##	"-2.5"	"33"	"50.09"	"6.837"
##	"-2.5"	"73"	"96.07"	"9.227"
##	"-2.5"	"1"	"7.08"	"2.432"
##	"-2.501"	"3"	"10.81"	"3.123"
##	"-2.502"	"2"	"10.78"	"3.509"
##	"-2.502"	"9"	"19.55"	"4.217"
##	"-2.503"	"10"	"19.87"	"3.943"
##	"-2.503"	"2"	"9.7"	"3.076"
##	"-2.504"	"6"	"14.58"	"3.427"
##	"-2.505"	"97"	"127.23"	"12.068"

##	"-2.505"	"0"	"6.88"	"2.746"
##	"-2.506"	"15"	"27.58"	"5.02"
##	"-2.508"	"73"	"98.49"	"10.162"
##	"-2.509"	"15"	"28.79"	"5.496"
##	"-2.51"	"21"	"34.89"	"5.534"
##	"-2.511"	"0"	"6.09"	"2.425"
##	"-2.511"	"6"	"15.57"	"3.812"
##	"-2.511"	"4"	"12.51"	"3.389"
##	"-2.512"	"1"	"7.67"	"2.655"
##	"-2.513"	"3"	"11.58"	"3.415"
##	"-2.513"	"0"	"5.76"	"2.292"
##	"-2.514"	"1"	"9.15"	"3.242"
##	"-2.516"	"5"	"13.17"	"3.248"
##	"-2.517"	"5"	"14.51"	"3.778"
##	"-2.518"	"8"	"18.41"	"4.134"
##	"-2.52"	"3"	"11.03"	"3.186"
##	"-2.52"	"3"	"10.21"	"2.861"
##	"-2.523"	"3"	"11.78"	"3.48"
##	"-2.524"	"5"	"13.06"	"3.193"
##	"-2.524"	"13"	"24.97"	"4.743"
##	"-2.524"	"1"	"8.61"	"3.015"
##	"-2.524"	"25"	"40.68"	"6.213"
##	"-2.524"	"7"	"16.97"	"3.95"
##	"-2.525"	"0"	"6.41"	"2.539"
##	"-2.525"	"0"	"6.25"	"2.476"
##	"-2.526"	"911"	"995.16"	"33.311"
##	"-2.527"	"6"	"17.53"	"4.563"
##	"-2.528"	"6"	"16.23"	"4.047"
##	"-2.529"	"0"	"5.43"	"2.147"
##	"-2.529"	"28"	"42.42"	"5.702"
##	"-2.529"	"1"	"7.6"	"2.609"
##	"-2.529"	"12"	"25.94"	"5.512"
##	"-2.53"	"0"	"7.47"	"2.952"
##	"-2.532"	"6"	"16.33"	"4.08"
##	"-2.532"	"2"	"9.22"	"2.852"
##	"-2.532"	"0"	"5.95"	"2.35"
##	"-2.533"	"1"	"6.49"	"2.167"
##	"-2.534"	"1"	"6.99"	"2.363"
##	"-2.537"	"4"	"13.59"	"3.78"
##	"-2.537"	"3"	"11.24"	"3.248"
##	"-2.54"	"11"	"23.56"	"4.945"
##	"-2.541"	"33"	"50.84"	"7.022"
##	"-2.541"	"1"	"7.29"	"2.475"
##	"-2.543"	"0"	"6.69"	"2.631"
##	"-2.543"	"3"	"11.93"	"3.511"
##	"-2.544"	"3"	"11.13"	"3.196"
##	"-2.545"	"0"	"7.12"	"2.797"
##	"-2.545"	"1"	"8.59"	"2.982"
##	"-2.545"	"1"	"6.43"	"2.133"
##	"-2.546"	"21"	"35.77"	"5.801"
##	"-2.548"	"9"	"21.2"	"4.788"
##	"-2.548"	"7"	"18.03"	"4.329"
##	"-2.549"	"0"	"6.61"	"2.593"
##	"-2.552"	"20"	"33.42"	"5.259"

##	"-2.552"	"22"	"39.69"	"6.932"
##	"-2.553"	"16"	"31.77"	"6.177"
##	"-2.554"	"53"	"75.05"	"8.634"
##	"-2.554"	"0"	"4.92"	"1.926"
##	"-2.554"	"3"	"11.27"	"3.238"
##	"-2.556"	"10"	"20.37"	"4.057"
##	"-2.556"	"0"	"6.07"	"2.375"
##	"-2.557"	"93"	"120.18"	"10.629"
##	"-2.557"	"0"	"6.68"	"2.613"
##	"-2.558"	"1"	"7.99"	"2.732"
##	"-2.558"	"0"	"6.5"	"2.541"
##	"-2.559"	"8"	"19.62"	"4.541"
##	"-2.559"	"13"	"25.2"	"4.767"
##	"-2.559"	"13"	"24.08"	"4.329"
##	"-2.559"	"0"	"5.63"	"2.2"
##	"-2.559"	"17"	"28.74"	"4.587"
##	"-2.56"	"1"	"8.63"	"2.98"
##	"-2.563"	"2"	"10.64"	"3.371"
##	"-2.563"	"33"	"50.91"	"6.988"
##	"-2.564"	"16"	"30.95"	"5.832"
##	"-2.564"	"93"	"118.5"	"9.945"
##	"-2.565"	"10"	"22.25"	"4.777"
##	"-2.565"	"0"	"5.98"	"2.331"
##	"-2.566"	"33"	"53.68"	"8.06"
##	"-2.567"	"13"	"24.3"	"4.403"
##	"-2.567"	"151"	"188.2"	"14.493"
##	"-2.567"	"0"	"6.56"	"2.556"
##	"-2.567"	"3"	"10.96"	"3.101"
##	"-2.567"	"0"	"6.56"	"2.556"
##	"-2.567"	"0"	"6.56"	"2.556"
##	"-2.567"	"0"	"6.56"	"2.556"
##	"-2.569"	"8"	"19.79"	"4.589"
##	"-2.569"	"10"	"21.35"	"4.418"
##	"-2.569"	"1"	"8.24"	"2.818"
##	"-2.57"	"1"	"8.68"	"2.988"
##	"-2.57"	"5"	"14.02"	"3.51"
##	"-2.57"	"0"	"4.7"	"1.829"
##	"-2.57"	"1"	"8.7"	"2.997"
##	"-2.57"	"0"	"5.95"	"2.315"
##	"-2.572"	"0"	"4.95"	"1.925"
##	"-2.572"	"51"	"73.78"	"8.858"
##	"-2.573"	"0"	"5.77"	"2.242"
##	"-2.574"	"46"	"64.44"	"7.165"
##	"-2.575"	"0"	"6.85"	"2.661"
##	"-2.575"	"2"	"8.56"	"2.548"
##	"-2.576"	"11"	"23.36"	"4.798"
##	"-2.577"	"65"	"88.33"	"9.052"
##	"-2.578"	"4"	"14.02"	"3.887"
##	"-2.578"	"28"	"45.89"	"6.938"
##	"-2.578"	"192"	"234.55"	"16.503"
##	"-2.579"	"52"	"72.23"	"7.846"
##	"-2.579"	"20"	"34.38"	"5.576"
##	"-2.579"	"6"	"16.12"	"3.924"
##	"-2.58"	"5"	"14.53"	"3.694"

##	"-2.581"	"0"	"5.28"	"2.045"
##	"-2.581"	"3"	"11.48"	"3.286"
##	"-2.581"	"7"	"17.62"	"4.114"
##	"-2.581"	"4"	"12.1"	"3.138"
##	"-2.582"	"21"	"36.39"	"5.961"
##	"-2.583"	"17"	"32.62"	"6.047"
##	"-2.583"	"4"	"12.19"	"3.171"
##	"-2.583"	"13"	"25.91"	"4.997"
##	"-2.583"	"0"	"5.91"	"2.288"
##	"-2.584"	"1"	"8.82"	"3.026"
##	"-2.586"	"2"	"11.05"	"3.5"
##	"-2.587"	"0"	"5.22"	"2.018"
##	"-2.587"	"5"	"14.5"	"3.672"
##	"-2.588"	"2"	"9.55"	"2.918"
##	"-2.588"	"1"	"7.94"	"2.681"
##	"-2.589"	"14"	"27.58"	"5.246"
##	"-2.593"	"53"	"74.02"	"8.108"
##	"-2.593"	"0"	"8.48"	"3.271"
##	"-2.594"	"1"	"7.83"	"2.633"
##	"-2.594"	"0"	"6.93"	"2.671"
##	"-2.594"	"1"	"8.61"	"2.933"
##	"-2.595"	"1"	"7.56"	"2.528"
##	"-2.596"	"6"	"15.82"	"3.783"
##	"-2.596"	"1"	"7.68"	"2.574"
##	"-2.596"	"2"	"10.2"	"3.159"
##	"-2.596"	"2"	"10.2"	"3.159"
##	"-2.596"	"2"	"10.2"	"3.159"
##	"-2.596"	"4"	"12.69"	"3.348"
##	"-2.597"	"6"	"15.83"	"3.785"
##	"-2.598"	"3"	"11.05"	"3.099"
##	"-2.599"	"63"	"84.1"	"8.118"
##	"-2.6"	"0"	"7.46"	"2.869"
##	"-2.6"	"0"	"6.81"	"2.62"
##	"-2.602"	"1"	"7.2"	"2.383"
##	"-2.603"	"1"	"8.12"	"2.735"
##	"-2.603"	"0"	"5.61"	"2.155"
##	"-2.603"	"0"	"5.94"	"2.282"
##	"-2.604"	"31"	"46.42"	"5.921"
##	"-2.606"	"0"	"5.85"	"2.245"
##	"-2.606"	"0"	"5.85"	"2.245"
##	"-2.607"	"0"	"7.77"	"2.981"
##	"-2.608"	"0"	"5.68"	"2.178"
##	"-2.609"	"4"	"14.36"	"3.971"
##	"-2.611"	"0"	"6.77"	"2.593"
##	"-2.611"	"0"	"6.77"	"2.593"
##	"-2.613"	"0"	"5.45"	"2.086"
##	"-2.613"	"7"	"16.71"	"3.715"
##	"-2.615"	"80"	"104.29"	"9.288"
##	"-2.615"	"4"	"12.56"	"3.273"
##	"-2.616"	"0"	"5.78"	"2.209"
##	"-2.616"	"0"	"6.56"	"2.508"
##	"-2.617"	"8"	"18.61"	"4.055"
##	"-2.622"	"2"	"10.67"	"3.306"
##	"-2.624"	"2"	"10.03"	"3.06"

##	"-2.625"	"0"	"5.92"	"2.255"
##	"-2.627"	"2"	"11.84"	"3.746"
##	"-2.628"	"73"	"95.64"	"8.615"
##	"-2.628"	"7"	"19.26"	"4.666"
##	"-2.629"	"3"	"12.3"	"3.538"
##	"-2.629"	"15"	"29.62"	"5.561"
##	"-2.63"	"10"	"22.08"	"4.594"
##	"-2.631"	"12"	"24.66"	"4.812"
##	"-2.632"	"0"	"6.44"	"2.447"
##	"-2.633"	"4"	"14.09"	"3.833"
##	"-2.633"	"3"	"11.65"	"3.286"
##	"-2.635"	"0"	"6.65"	"2.524"
##	"-2.635"	"101"	"127.95"	"10.228"
##	"-2.636"	"1"	"8.63"	"2.894"
##	"-2.636"	"0"	"6.15"	"2.333"
##	"-2.637"	"27"	"44.62"	"6.681"
##	"-2.638"	"5"	"15.25"	"3.886"
##	"-2.64"	"3"	"10.58"	"2.872"
##	"-2.64"	"9"	"20.83"	"4.481"
##	"-2.642"	"23"	"38.55"	"5.885"
##	"-2.642"	"62"	"83.76"	"8.235"
##	"-2.642"	"0"	"6.92"	"2.62"
##	"-2.642"	"0"	"6.92"	"2.62"
##	"-2.642"	"0"	"6.92"	"2.62"
##	"-2.645"	"5"	"14.64"	"3.645"
##	"-2.649"	"64"	"86.34"	"8.432"
##	"-2.649"	"5"	"14.52"	"3.594"
##	"-2.649"	"2"	"9.99"	"3.017"
##	"-2.65"	"37"	"55.67"	"7.045"
##	"-2.65"	"5"	"15.41"	"3.929"
##	"-2.652"	"0"	"9"	"3.393"
##	"-2.653"	"1"	"10.04"	"3.408"
##	"-2.653"	"6"	"14.27"	"3.117"
##	"-2.656"	"0"	"5.54"	"2.086"
##	"-2.658"	"13"	"27.22"	"5.35"
##	"-2.658"	"7"	"15.35"	"3.141"
##	"-2.658"	"2"	"9.67"	"2.885"
##	"-2.659"	"9"	"21"	"4.513"
##	"-2.659"	"51"	"74.27"	"8.751"
##	"-2.66"	"368"	"419.87"	"19.503"
##	"-2.662"	"3"	"12"	"3.381"
##	"-2.662"	"0"	"6.8"	"2.554"
##	"-2.662"	"0"	"6.8"	"2.554"
##	"-2.664"	"9"	"20.56"	"4.34"
##	"-2.665"	"0"	"6.99"	"2.623"
##	"-2.666"	"5"	"16.6"	"4.351"
##	"-2.667"	"1"	"9.38"	"3.142"
##	"-2.668"	"1"	"9.59"	"3.22"
##	"-2.67"	"7"	"17.01"	"3.748"
##	"-2.671"	"112"	"141.48"	"11.036"
##	"-2.671"	"6"	"13.31"	"2.737"
##	"-2.671"	"19"	"34.95"	"5.972"
##	"-2.671"	"30"	"48.75"	"7.019"
##	"-2.672"	"0"	"5.78"	"2.163"

##	"-2.672"	"0"	"5.78"	"2.163"
##	"-2.672"	"1"	"7.61"	"2.474"
##	"-2.672"	"1"	"7.61"	"2.474"
##	"-2.672"	"1"	"7.61"	"2.474"
##	"-2.672"	"1"	"7.61"	"2.474"
##	"-2.672"	"0"	"5.78"	"2.163"
##	"-2.673"	"0"	"4.67"	"1.747"
##	"-2.673"	"1"	"8.12"	"2.664"
##	"-2.673"	"0"	"7.17"	"2.682"
##	"-2.674"	"19"	"33.92"	"5.579"
##	"-2.675"	"4"	"12.21"	"3.069"
##	"-2.675"	"1"	"7.69"	"2.501"
##	"-2.676"	"0"	"5.97"	"2.231"
##	"-2.677"	"10"	"19.47"	"3.538"
##	"-2.677"	"7"	"17.09"	"3.769"
##	"-2.678"	"105"	"133.94"	"10.806"
##	"-2.678"	"125"	"158.98"	"12.687"
##	"-2.679"	"2"	"11.5"	"3.546"
##	"-2.679"	"2"	"10.55"	"3.192"
##	"-2.679"	"0"	"7.75"	"2.893"
##	"-2.679"	"144"	"179.95"	"13.418"
##	"-2.681"	"1"	"7.99"	"2.607"
##	"-2.683"	"11"	"24.58"	"5.062"
##	"-2.683"	"1"	"10.17"	"3.417"
##	"-2.683"	"6"	"16.07"	"3.753"
##	"-2.684"	"0"	"6.25"	"2.328"
##	"-2.684"	"6"	"15.86"	"3.674"
##	"-2.685"	"1"	"8.75"	"2.886"
##	"-2.686"	"18"	"33.26"	"5.681"
##	"-2.687"	"0"	"5.28"	"1.965"
##	"-2.687"	"1"	"8.8"	"2.902"
##	"-2.688"	"0"	"6.38"	"2.373"
##	"-2.689"	"1"	"7.71"	"2.496"
##	"-2.689"	"3"	"11.49"	"3.157"
##	"-2.69"	"3"	"9.95"	"2.583"
##	"-2.69"	"1"	"10.09"	"3.379"
##	"-2.69"	"3"	"9.95"	"2.583"
##	"-2.691"	"5"	"15.25"	"3.81"
##	"-2.692"	"153"	"186.69"	"12.514"
##	"-2.692"	"140"	"174.48"	"12.81"
##	"-2.692"	"0"	"5.97"	"2.218"
##	"-2.692"	"4"	"13.06"	"3.366"
##	"-2.694"	"0"	"8.24"	"3.059"
##	"-2.694"	"6"	"16.74"	"3.986"
##	"-2.695"	"0"	"7.28"	"2.701"
##	"-2.695"	"1"	"7.62"	"2.457"
##	"-2.695"	"0"	"7.24"	"2.686"
##	"-2.696"	"0"	"5.66"	"2.1"
##	"-2.696"	"61"	"83.96"	"8.517"
##	"-2.697"	"0"	"6"	"2.225"
##	"-2.697"	"0"	"5.97"	"2.213"
##	"-2.699"	"3"	"12.88"	"3.661"
##	"-2.702"	"6"	"17.42"	"4.226"
##	"-2.702"	"1"	"8.86"	"2.909"

##	"-2.704"	"16"	"28.81"	"4.737"
##	"-2.706"	"0"	"7.63"	"2.82"
##	"-2.708"	"3"	"11.93"	"3.298"
##	"-2.708"	"0"	"5.58"	"2.061"
##	"-2.709"	"2"	"9.82"	"2.886"
##	"-2.709"	"25"	"40.7"	"5.795"
##	"-2.71"	"207"	"248.63"	"15.362"
##	"-2.712"	"0"	"7.61"	"2.807"
##	"-2.712"	"0"	"7.61"	"2.807"
##	"-2.712"	"0"	"7.61"	"2.807"
##	"-2.713"	"1"	"7.66"	"2.455"
##	"-2.714"	"5"	"14.59"	"3.534"
##	"-2.715"	"5"	"15.92"	"4.022"
##	"-2.715"	"3"	"12.38"	"3.455"
##	"-2.716"	"2"	"10.69"	"3.199"
##	"-2.717"	"0"	"7.43"	"2.735"
##	"-2.718"	"2"	"11.44"	"3.474"
##	"-2.72"	"2"	"11.38"	"3.449"
##	"-2.722"	"0"	"6.32"	"2.322"
##	"-2.723"	"0"	"7.48"	"2.747"
##	"-2.724"	"0"	"6.46"	"2.372"
##	"-2.726"	"4"	"12.98"	"3.294"
##	"-2.727"	"4"	"14.23"	"3.752"
##	"-2.727"	"4"	"14.23"	"3.752"
##	"-2.727"	"0"	"7.49"	"2.747"
##	"-2.728"	"1"	"8.84"	"2.873"
##	"-2.728"	"1"	"8.84"	"2.873"
##	"-2.728"	"7"	"16.6"	"3.519"
##	"-2.728"	"1"	"8.84"	"2.873"
##	"-2.728"	"1"	"8.84"	"2.873"
##	"-2.729"	"2"	"8.72"	"2.462"
##	"-2.729"	"3"	"11.4"	"3.078"
##	"-2.729"	"9"	"19.32"	"3.782"
##	"-2.729"	"5"	"15.52"	"3.855"
##	"-2.731"	"1"	"8.04"	"2.578"
##	"-2.732"	"6"	"15.65"	"3.532"
##	"-2.734"	"16"	"32.91"	"6.184"
##	"-2.735"	"4"	"11.84"	"2.866"
##	"-2.738"	"9"	"19.19"	"3.722"
##	"-2.738"	"1"	"9.26"	"3.017"
##	"-2.741"	"143"	"174.33"	"11.431"
##	"-2.741"	"1"	"9.38"	"3.058"
##	"-2.741"	"1"	"8.86"	"2.868"
##	"-2.742"	"9"	"20.63"	"4.242"
##	"-2.742"	"15"	"26.68"	"4.259"
##	"-2.745"	"5"	"14.92"	"3.614"
##	"-2.745"	"3"	"11.01"	"2.918"
##	"-2.746"	"14"	"27.06"	"4.756"
##	"-2.747"	"6"	"18.28"	"4.47"
##	"-2.747"	"1"	"11.6"	"3.859"
##	"-2.748"	"0"	"8.23"	"2.994"
##	"-2.748"	"1"	"7.53"	"2.376"
##	"-2.748"	"1"	"7.84"	"2.489"
##	"-2.748"	"39"	"58.08"	"6.942"

##	"-2.748"	"4"	"15.03"	"4.014"
##	"-2.751"	"6"	"16.64"	"3.868"
##	"-2.754"	"0"	"7.24"	"2.629"
##	"-2.754"	"0"	"6"	"2.179"
##	"-2.754"	"2"	"10.56"	"3.109"
##	"-2.754"	"3"	"10.36"	"2.672"
##	"-2.755"	"0"	"6.31"	"2.29"
##	"-2.755"	"0"	"8.63"	"3.132"
##	"-2.755"	"4"	"11.81"	"2.834"
##	"-2.757"	"3"	"10.72"	"2.8"
##	"-2.757"	"25"	"40.61"	"5.662"
##	"-2.758"	"12"	"25.45"	"4.877"
##	"-2.758"	"2"	"10.92"	"3.234"
##	"-2.76"	"12"	"26.59"	"5.286"
##	"-2.76"	"113"	"147.07"	"12.343"
##	"-2.762"	"39"	"57.74"	"6.785"
##	"-2.762"	"1"	"8.63"	"2.762"
##	"-2.764"	"2"	"9.01"	"2.537"
##	"-2.766"	"1"	"8"	"2.531"
##	"-2.766"	"3"	"14.02"	"3.985"
##	"-2.767"	"11"	"25.17"	"5.121"
##	"-2.767"	"4"	"14.61"	"3.835"
##	"-2.767"	"0"	"6.48"	"2.342"
##	"-2.768"	"2"	"11.71"	"3.508"
##	"-2.768"	"5"	"13.98"	"3.244"
##	"-2.769"	"3"	"13.14"	"3.663"
##	"-2.769"	"1"	"8.37"	"2.662"
##	"-2.769"	"1"	"8.37"	"2.662"
##	"-2.769"	"1"	"8.37"	"2.662"
##	"-2.77"	"0"	"7.27"	"2.624"
##	"-2.771"	"8"	"20.27"	"4.429"
##	"-2.775"	"1"	"8.97"	"2.873"
##	"-2.776"	"5"	"15.51"	"3.786"
##	"-2.777"	"0"	"9.46"	"3.407"
##	"-2.78"	"1"	"8.68"	"2.763"
##	"-2.781"	"0"	"5.94"	"2.136"
##	"-2.781"	"3"	"12.54"	"3.43"
##	"-2.782"	"296"	"344.03"	"17.262"
##	"-2.782"	"2"	"12.83"	"3.893"
##	"-2.784"	"22"	"40.17"	"6.526"
##	"-2.784"	"0"	"7.47"	"2.683"
##	"-2.787"	"115"	"146.91"	"11.45"
##	"-2.787"	"1"	"8.3"	"2.619"
##	"-2.788"	"1"	"10.75"	"3.497"
##	"-2.789"	"11"	"22.54"	"4.138"
##	"-2.79"	"0"	"8.58"	"3.075"
##	"-2.791"	"1"	"8.57"	"2.713"
##	"-2.792"	"2"	"10.61"	"3.084"
##	"-2.792"	"1"	"10.16"	"3.281"
##	"-2.792"	"1"	"10.39"	"3.363"
##	"-2.793"	"1"	"7.26"	"2.241"
##	"-2.796"	"2"	"11.72"	"3.476"
##	"-2.796"	"16"	"30.98"	"5.358"
##	"-2.796"	"4"	"12.51"	"3.043"

##	"-2.797"	"5"	"17.1"	"4.326"
##	"-2.797"	"2"	"11.36"	"3.347"
##	"-2.799"	"0"	"8.51"	"3.04"
##	"-2.8"	"139"	"177.9"	"13.895"
##	"-2.802"	"1"	"10.05"	"3.23"
##	"-2.802"	"5"	"15.41"	"3.715"
##	"-2.802"	"3"	"11.86"	"3.162"
##	"-2.802"	"9"	"21.41"	"4.429"
##	"-2.803"	"2"	"10.34"	"2.975"
##	"-2.803"	"0"	"7.91"	"2.822"
##	"-2.803"	"0"	"6.88"	"2.455"
##	"-2.806"	"8"	"22.08"	"5.019"
##	"-2.809"	"132"	"168.71"	"13.067"
##	"-2.809"	"0"	"6.8"	"2.42"
##	"-2.809"	"1"	"8.16"	"2.549"
##	"-2.811"	"0"	"7"	"2.49"
##	"-2.811"	"49"	"72.52"	"8.368"
##	"-2.811"	"7"	"19.13"	"4.315"
##	"-2.811"	"8"	"20.68"	"4.51"
##	"-2.814"	"0"	"7.91"	"2.811"
##	"-2.814"	"48"	"69.3"	"7.57"
##	"-2.816"	"30"	"46.5"	"5.859"
##	"-2.818"	"3"	"14.29"	"4.006"
##	"-2.82"	"7"	"19.55"	"4.45"
##	"-2.82"	"18"	"32.38"	"5.099"
##	"-2.82"	"0"	"6.29"	"2.231"
##	"-2.822"	"14"	"27.2"	"4.677"
##	"-2.823"	"2"	"11.5"	"3.365"
##	"-2.823"	"9"	"21.91"	"4.573"
##	"-2.824"	"0"	"10.32"	"3.654"
##	"-2.824"	"13"	"28.18"	"5.376"
##	"-2.824"	"0"	"6.32"	"2.238"
##	"-2.824"	"5"	"15.37"	"3.673"
##	"-2.827"	"24"	"43.47"	"6.888"
##	"-2.828"	"9"	"21.98"	"4.59"
##	"-2.829"	"7"	"17.52"	"3.719"
##	"-2.831"	"0"	"8.55"	"3.02"
##	"-2.832"	"79"	"109.05"	"10.612"
##	"-2.832"	"0"	"6.77"	"2.39"
##	"-2.833"	"11"	"23.68"	"4.476"
##	"-2.834"	"0"	"8.05"	"2.84"
##	"-2.835"	"0"	"6.16"	"2.173"
##	"-2.836"	"2"	"13.09"	"3.911"
##	"-2.837"	"0"	"5.93"	"2.09"
##	"-2.84"	"0"	"6.65"	"2.341"
##	"-2.84"	"1"	"9.91"	"3.137"
##	"-2.842"	"0"	"6.27"	"2.206"
##	"-2.842"	"0"	"9.46"	"3.329"
##	"-2.842"	"1"	"7.37"	"2.241"
##	"-2.844"	"2"	"9.94"	"2.792"
##	"-2.845"	"0"	"7.99"	"2.809"
##	"-2.845"	"6"	"17.86"	"4.168"
##	"-2.845"	"40"	"59.81"	"6.963"
##	"-2.846"	"8"	"21.61"	"4.782"

##	"-2.846"	"4"	"18"	"4.92"
##	"-2.847"	"4"	"13.51"	"3.341"
##	"-2.849"	"11"	"24.26"	"4.655"
##	"-2.849"	"0"	"8.49"	"2.98"
##	"-2.85"	"20"	"37.51"	"6.144"
##	"-2.85"	"0"	"6.12"	"2.147"
##	"-2.852"	"14"	"28.91"	"5.228"
##	"-2.853"	"1"	"9.52"	"2.986"
##	"-2.854"	"1"	"9.13"	"2.849"
##	"-2.854"	"11"	"25.64"	"5.13"
##	"-2.856"	"2"	"13.61"	"4.065"
##	"-2.856"	"2"	"13.61"	"4.065"
##	"-2.857"	"44"	"67.22"	"8.128"
##	"-2.857"	"9"	"24.07"	"5.275"
##	"-2.858"	"0"	"8.18"	"2.862"
##	"-2.858"	"24"	"39.65"	"5.476"
##	"-2.859"	"6"	"16.11"	"3.536"
##	"-2.859"	"2"	"13.44"	"4.001"
##	"-2.859"	"0"	"8.46"	"2.959"
##	"-2.862"	"0"	"7.12"	"2.487"
##	"-2.863"	"0"	"6.6"	"2.305"
##	"-2.863"	"0"	"6.6"	"2.305"
##	"-2.863"	"2"	"10.53"	"2.98"
##	"-2.864"	"13"	"29.29"	"5.688"
##	"-2.865"	"21"	"36.67"	"5.47"
##	"-2.865"	"2"	"10.6"	"3.002"
##	"-2.865"	"1"	"10.52"	"3.323"
##	"-2.866"	"17"	"35.7"	"6.525"
##	"-2.867"	"1"	"8.52"	"2.623"
##	"-2.869"	"2"	"11.27"	"3.231"
##	"-2.869"	"49"	"69.68"	"7.208"
##	"-2.87"	"17"	"33.26"	"5.665"
##	"-2.873"	"0"	"8.43"	"2.934"
##	"-2.873"	"154"	"190.85"	"12.828"
##	"-2.874"	"2"	"11.27"	"3.225"
##	"-2.874"	"18"	"31.19"	"4.59"
##	"-2.875"	"9"	"21.03"	"4.184"
##	"-2.875"	"11"	"25.3"	"4.974"
##	"-2.875"	"12"	"26.46"	"5.03"
##	"-2.879"	"5"	"15.46"	"3.633"
##	"-2.88"	"0"	"8.02"	"2.785"
##	"-2.881"	"4"	"14.62"	"3.687"
##	"-2.882"	"2"	"11.48"	"3.289"
##	"-2.883"	"6"	"17.29"	"3.917"
##	"-2.885"	"8"	"21.79"	"4.781"
##	"-2.885"	"5"	"14.7"	"3.362"
##	"-2.887"	"2"	"11"	"3.117"
##	"-2.887"	"10"	"26.5"	"5.715"
##	"-2.888"	"1"	"9.12"	"2.812"
##	"-2.889"	"1"	"10.74"	"3.371"
##	"-2.889"	"9"	"20.87"	"4.109"
##	"-2.89"	"1"	"9.29"	"2.868"
##	"-2.891"	"1"	"12.5"	"3.978"
##	"-2.892"	"11"	"24.87"	"4.796"

##	"-2.893"	"2"	"10.45"	"2.921"
##	"-2.893"	"0"	"8.22"	"2.841"
##	"-2.893"	"14"	"30.99"	"5.873"
##	"-2.894"	"1"	"9.41"	"2.906"
##	"-2.897"	"0"	"6.23"	"2.15"
##	"-2.897"	"8"	"21.62"	"4.701"
##	"-2.901"	"1"	"9.16"	"2.813"
##	"-2.902"	"1"	"8.51"	"2.588"
##	"-2.903"	"2"	"9.06"	"2.432"
##	"-2.903"	"1"	"9.57"	"2.952"
##	"-2.905"	"6"	"16.91"	"3.755"
##	"-2.906"	"1"	"9.27"	"2.846"
##	"-2.906"	"41"	"64.49"	"8.084"
##	"-2.907"	"33"	"52.96"	"6.865"
##	"-2.908"	"2"	"11.29"	"3.195"
##	"-2.91"	"5"	"15.58"	"3.635"
##	"-2.911"	"8"	"23.06"	"5.173"
##	"-2.914"	"14"	"29.93"	"5.467"
##	"-2.914"	"3"	"15.06"	"4.139"
##	"-2.914"	"185"	"228.04"	"14.772"
##	"-2.915"	"0"	"8.62"	"2.957"
##	"-2.918"	"100"	"134.66"	"11.878"
##	"-2.918"	"1"	"8.46"	"2.556"
##	"-2.919"	"6"	"18.05"	"4.128"
##	"-2.919"	"2"	"10.39"	"2.874"
##	"-2.919"	"29"	"47.02"	"6.174"
##	"-2.92"	"3"	"16.09"	"4.484"
##	"-2.92"	"0"	"8.89"	"3.045"
##	"-2.921"	"0"	"8.31"	"2.845"
##	"-2.922"	"0"	"7.65"	"2.618"
##	"-2.923"	"2"	"14.13"	"4.15"
##	"-2.923"	"0"	"7.93"	"2.713"
##	"-2.923"	"0"	"7.93"	"2.713"
##	"-2.924"	"16"	"30.89"	"5.093"
##	"-2.926"	"0"	"7.95"	"2.717"
##	"-2.927"	"0"	"8.96"	"3.061"
##	"-2.928"	"0"	"6.48"	"2.213"
##	"-2.93"	"10"	"23.1"	"4.471"
##	"-2.931"	"230"	"273.49"	"14.835"
##	"-2.933"	"4"	"14.72"	"3.654"
##	"-2.933"	"1"	"9.78"	"2.994"
##	"-2.934"	"22"	"43.31"	"7.262"
##	"-2.934"	"1"	"8.81"	"2.662"
##	"-2.935"	"5"	"16.06"	"3.768"
##	"-2.936"	"1"	"11.63"	"3.62"
##	"-2.936"	"1"	"11.63"	"3.62"
##	"-2.936"	"1"	"11.63"	"3.62"
##	"-2.936"	"1"	"11.96"	"3.733"
##	"-2.936"	"1"	"9.62"	"2.936"
##	"-2.936"	"12"	"24.66"	"4.312"
##	"-2.937"	"0"	"7.34"	"2.499"
##	"-2.938"	"22"	"38.42"	"5.589"
##	"-2.938"	"1"	"8.45"	"2.536"
##	"-2.938"	"16"	"34.04"	"6.14"

##	"-2.938"	"12"	"26.9"	"5.072"
##	"-2.938"	"1"	"8.45"	"2.536"
##	"-2.94"	"0"	"7.04"	"2.395"
##	"-2.94"	"0"	"6.04"	"2.054"
##	"-2.941"	"1"	"10.91"	"3.37"
##	"-2.942"	"7"	"19.12"	"4.12"
##	"-2.944"	"1"	"9.88"	"3.016"
##	"-2.945"	"0"	"8.25"	"2.801"
##	"-2.945"	"44"	"67.4"	"7.947"
##	"-2.946"	"2"	"11.81"	"3.329"
##	"-2.946"	"2"	"10.44"	"2.865"
##	"-2.948"	"22"	"40.41"	"6.244"
##	"-2.948"	"28"	"47.23"	"6.524"
##	"-2.949"	"7"	"18.67"	"3.957"
##	"-2.95"	"0"	"6.35"	"2.153"
##	"-2.951"	"0"	"6.98"	"2.365"
##	"-2.951"	"21"	"42.53"	"7.295"
##	"-2.951"	"2"	"14.8"	"4.337"
##	"-2.952"	"37"	"60.92"	"8.104"
##	"-2.952"	"22"	"41.59"	"6.636"
##	"-2.954"	"9"	"21.78"	"4.327"
##	"-2.955"	"0"	"8.34"	"2.822"
##	"-2.955"	"2"	"10.35"	"2.826"
##	"-2.955"	"2"	"10.35"	"2.826"
##	"-2.955"	"2"	"10.35"	"2.826"
##	"-2.957"	"1"	"8.17"	"2.425"
##	"-2.957"	"2"	"12.71"	"3.622"
##	"-2.96"	"3"	"15.22"	"4.128"
##	"-2.96"	"1"	"9.62"	"2.912"
##	"-2.96"	"0"	"6.36"	"2.149"
##	"-2.96"	"0"	"5.88"	"1.986"
##	"-2.96"	"34"	"54.94"	"7.074"
##	"-2.961"	"4"	"16.37"	"4.177"
##	"-2.966"	"0"	"8.24"	"2.778"
##	"-2.966"	"0"	"8.54"	"2.879"
##	"-2.967"	"21"	"38.51"	"5.901"
##	"-2.969"	"5"	"17.73"	"4.287"
##	"-2.972"	"23"	"43.05"	"6.747"
##	"-2.972"	"2"	"13.04"	"3.714"
##	"-2.972"	"0"	"7.98"	"2.685"
##	"-2.976"	"10"	"26.34"	"5.491"
##	"-2.977"	"0"	"9.05"	"3.04"
##	"-2.977"	"864"	"980.49"	"39.129"
##	"-2.978"	"0"	"8.16"	"2.74"
##	"-2.978"	"0"	"8.27"	"2.777"
##	"-2.979"	"11"	"26.91"	"5.341"
##	"-2.98"	"1"	"8.68"	"2.578"
##	"-2.981"	"0"	"9.18"	"3.079"
##	"-2.984"	"0"	"9.18"	"3.076"
##	"-2.984"	"0"	"9.05"	"3.033"
##	"-2.985"	"0"	"7.29"	"2.442"
##	"-2.985"	"22"	"40.57"	"6.222"
##	"-2.985"	"0"	"7.29"	"2.442"
##	"-2.986"	"11"	"24.18"	"4.414"

##	"-2.987"	"5"	"16.74"	"3.93"
##	"-2.987"	"1"	"11.76"	"3.602"
##	"-2.989"	"491"	"587.67"	"32.337"
##	"-2.99"	"61"	"86.59"	"8.558"
##	"-2.99"	"2"	"11.81"	"3.28"
##	"-2.991"	"0"	"7.26"	"2.427"
##	"-2.993"	"1"	"11.1"	"3.374"
##	"-2.994"	"25"	"40.3"	"5.11"
##	"-2.994"	"0"	"8.33"	"2.782"
##	"-2.995"	"2"	"10.98"	"2.998"
##	"-2.995"	"20"	"36.02"	"5.348"
##	"-2.996"	"0"	"7.48"	"2.496"
##	"-2.997"	"1"	"8.92"	"2.643"
##	"-2.998"	"2"	"10.82"	"2.942"
##	"-3.001"	"1"	"9.88"	"2.959"
##	"-3.001"	"0"	"6.46"	"2.153"
##	"-3.001"	"0"	"7.54"	"2.512"
##	"-3.001"	"0"	"8.24"	"2.746"
##	"-3.002"	"2"	"12.98"	"3.657"
##	"-3.002"	"6"	"16.83"	"3.607"
##	"-3.003"	"0"	"9.41"	"3.134"
##	"-3.003"	"40"	"61.94"	"7.307"
##	"-3.003"	"12"	"27.77"	"5.251"
##	"-3.003"	"5"	"16.83"	"3.939"
##	"-3.003"	"0"	"8.62"	"2.87"
##	"-3.004"	"9"	"23.14"	"4.708"
##	"-3.007"	"367"	"443.45"	"25.42"
##	"-3.007"	"5"	"17.22"	"4.064"
##	"-3.008"	"2"	"9.97"	"2.649"
##	"-3.008"	"0"	"7.59"	"2.523"
##	"-3.009"	"1"	"10.48"	"3.151"
##	"-3.01"	"2"	"15.4"	"4.452"
##	"-3.011"	"39"	"64.82"	"8.575"
##	"-3.011"	"4"	"14.62"	"3.527"
##	"-3.012"	"9"	"22.26"	"4.403"
##	"-3.013"	"10"	"23.64"	"4.527"
##	"-3.014"	"5"	"16.09"	"3.679"
##	"-3.014"	"0"	"9.03"	"2.996"
##	"-3.015"	"1"	"10.44"	"3.131"
##	"-3.018"	"6"	"18.73"	"4.218"
##	"-3.018"	"4"	"14.99"	"3.642"
##	"-3.019"	"33"	"53.11"	"6.66"
##	"-3.019"	"1"	"11.47"	"3.468"
##	"-3.019"	"5"	"16.96"	"3.962"
##	"-3.02"	"0"	"9.29"	"3.076"
##	"-3.02"	"24"	"40.42"	"5.437"
##	"-3.021"	"3"	"12.33"	"3.088"
##	"-3.021"	"4"	"14.01"	"3.314"
##	"-3.022"	"0"	"10.49"	"3.471"
##	"-3.022"	"345"	"420.51"	"24.983"
##	"-3.022"	"3"	"16.85"	"4.582"
##	"-3.022"	"0"	"7.26"	"2.402"
##	"-3.024"	"0"	"8.74"	"2.891"
##	"-3.024"	"14"	"33.18"	"6.343"

##	"-3.026"	"2"	"12.95"	"3.619"
##	"-3.026"	"44"	"71.45"	"9.073"
##	"-3.029"	"28"	"48.45"	"6.752"
##	"-3.029"	"1"	"9.22"	"2.714"
##	"-3.03"	"9"	"22.71"	"4.524"
##	"-3.031"	"4"	"16.34"	"4.071"
##	"-3.032"	"31"	"50.4"	"6.398"
##	"-3.032"	"3"	"15.89"	"4.252"
##	"-3.032"	"0"	"7.31"	"2.411"
##	"-3.034"	"5"	"15.93"	"3.602"
##	"-3.035"	"41"	"63.14"	"7.296"
##	"-3.035"	"1"	"9.03"	"2.646"
##	"-3.037"	"0"	"9.63"	"3.171"
##	"-3.038"	"0"	"6.74"	"2.218"
##	"-3.038"	"22"	"41.86"	"6.538"
##	"-3.039"	"331"	"411.71"	"26.561"
##	"-3.039"	"2"	"11.67"	"3.182"
##	"-3.04"	"2"	"14.48"	"4.106"
##	"-3.041"	"1"	"9.34"	"2.742"
##	"-3.041"	"1"	"9.34"	"2.742"
##	"-3.043"	"12"	"28.28"	"5.351"
##	"-3.045"	"4"	"14.78"	"3.541"
##	"-3.045"	"4"	"14.78"	"3.541"
##	"-3.047"	"0"	"9.21"	"3.023"
##	"-3.048"	"5"	"17.24"	"4.015"
##	"-3.049"	"10"	"24.53"	"4.766"
##	"-3.052"	"241"	"290.48"	"16.213"
##	"-3.052"	"1"	"9.77"	"2.874"
##	"-3.053"	"1"	"9.25"	"2.702"
##	"-3.054"	"2"	"12.53"	"3.448"
##	"-3.055"	"17"	"32.58"	"5.099"
##	"-3.057"	"0"	"6.02"	"1.969"
##	"-3.058"	"11"	"25.27"	"4.666"
##	"-3.06"	"0"	"7.55"	"2.467"
##	"-3.062"	"3"	"15.41"	"4.053"
##	"-3.063"	"29"	"48.34"	"6.314"
##	"-3.063"	"0"	"9.43"	"3.079"
##	"-3.064"	"365"	"442.82"	"25.397"
##	"-3.064"	"5"	"19.53"	"4.743"
##	"-3.065"	"22"	"38.58"	"5.409"
##	"-3.066"	"0"	"7.63"	"2.489"
##	"-3.066"	"1"	"9.03"	"2.619"
##	"-3.067"	"225"	"275.05"	"16.32"
##	"-3.067"	"3"	"13.14"	"3.306"
##	"-3.068"	"2"	"10.36"	"2.725"
##	"-3.069"	"39"	"65.87"	"8.757"
##	"-3.07"	"0"	"7.12"	"2.319"
##	"-3.07"	"0"	"7.12"	"2.319"
##	"-3.07"	"0"	"7.12"	"2.319"
##	"-3.071"	"3"	"14.72"	"3.817"
##	"-3.071"	"10"	"24.76"	"4.806"
##	"-3.072"	"0"	"8.36"	"2.721"
##	"-3.073"	"4"	"14.4"	"3.384"
##	"-3.074"	"5"	"19.31"	"4.655"

##	"-3.075"	"22"	"38.42"	"5.339"
##	"-3.076"	"43"	"65.71"	"7.382"
##	"-3.078"	"1"	"9.23"	"2.674"
##	"-3.078"	"1"	"11.53"	"3.421"
##	"-3.078"	"63"	"88.61"	"8.319"
##	"-3.079"	"25"	"46.26"	"6.906"
##	"-3.079"	"4"	"16.09"	"3.926"
##	"-3.08"	"1"	"12.23"	"3.646"
##	"-3.08"	"0"	"10.89"	"3.536"
##	"-3.081"	"0"	"8.06"	"2.616"
##	"-3.082"	"2"	"10.82"	"2.862"
##	"-3.083"	"5"	"18.31"	"4.317"
##	"-3.084"	"0"	"8.56"	"2.776"
##	"-3.084"	"1"	"9.3"	"2.691"
##	"-3.084"	"1"	"10.83"	"3.188"
##	"-3.084"	"0"	"9.93"	"3.22"
##	"-3.086"	"4"	"15.31"	"3.664"
##	"-3.087"	"3"	"15.49"	"4.046"
##	"-3.088"	"3"	"14.22"	"3.634"
##	"-3.09"	"7"	"19.55"	"4.061"
##	"-3.09"	"13"	"26.87"	"4.489"
##	"-3.091"	"0"	"8.83"	"2.857"
##	"-3.092"	"0"	"9.57"	"3.095"
##	"-3.096"	"12"	"25.3"	"4.296"
##	"-3.097"	"0"	"10.42"	"3.364"
##	"-3.097"	"34"	"57.5"	"7.589"
##	"-3.097"	"1"	"12.16"	"3.603"
##	"-3.098"	"63"	"92.12"	"9.4"
##	"-3.098"	"51"	"74.32"	"7.528"
##	"-3.099"	"37"	"61.93"	"8.046"
##	"-3.1"	"9"	"24.5"	"5"
##	"-3.102"	"85"	"115.77"	"9.92"
##	"-3.103"	"3"	"13.56"	"3.403"
##	"-3.103"	"25"	"42.31"	"5.579"
##	"-3.105"	"15"	"30.61"	"5.027"
##	"-3.105"	"6"	"17.36"	"3.658"
##	"-3.105"	"5"	"16.61"	"3.739"
##	"-3.106"	"19"	"39.26"	"6.524"
##	"-3.107"	"0"	"7.5"	"2.414"
##	"-3.109"	"2"	"11.73"	"3.13"
##	"-3.11"	"1"	"9.53"	"2.743"
##	"-3.111"	"0"	"8.36"	"2.687"
##	"-3.112"	"1"	"11.71"	"3.442"
##	"-3.112"	"0"	"6.91"	"2.221"
##	"-3.114"	"42"	"68.67"	"8.565"
##	"-3.114"	"4"	"14.4"	"3.339"
##	"-3.114"	"3"	"15.66"	"4.066"
##	"-3.115"	"1"	"10.38"	"3.011"
##	"-3.116"	"10"	"24.83"	"4.759"
##	"-3.117"	"2"	"10.47"	"2.717"
##	"-3.123"	"0"	"10.13"	"3.243"
##	"-3.125"	"6"	"20.19"	"4.541"
##	"-3.125"	"54"	"79.79"	"8.253"
##	"-3.126"	"2"	"12.39"	"3.324"

##	"-3.129"	"1"	"11.24"	"3.273"
##	"-3.131"	"8"	"20.14"	"3.877"
##	"-3.131"	"4"	"16.74"	"4.069"
##	"-3.133"	"21"	"36.38"	"4.909"
##	"-3.135"	"20"	"37.56"	"5.602"
##	"-3.136"	"1"	"11.19"	"3.25"
##	"-3.137"	"0"	"12.17"	"3.88"
##	"-3.137"	"4"	"16.09"	"3.854"
##	"-3.138"	"1"	"9.55"	"2.724"
##	"-3.139"	"0"	"8.07"	"2.571"
##	"-3.139"	"8"	"23.31"	"4.878"
##	"-3.14"	"0"	"6.55"	"2.086"
##	"-3.14"	"4"	"16.28"	"3.911"
##	"-3.14"	"4"	"16.28"	"3.911"
##	"-3.14"	"4"	"16.28"	"3.911"
##	"-3.14"	"4"	"16.28"	"3.911"
##	"-3.141"	"1"	"10.32"	"2.967"
##	"-3.142"	"0"	"8.91"	"2.836"
##	"-3.143"	"19"	"36.68"	"5.624"
##	"-3.143"	"1"	"11.96"	"3.487"
##	"-3.144"	"27"	"49.84"	"7.265"
##	"-3.145"	"0"	"7.95"	"2.528"
##	"-3.146"	"41"	"63.73"	"7.225"
##	"-3.147"	"17"	"34.69"	"5.62"
##	"-3.147"	"15"	"31.4"	"5.211"
##	"-3.148"	"1"	"11.75"	"3.415"
##	"-3.15"	"3"	"14.66"	"3.702"
##	"-3.152"	"9"	"27.55"	"5.885"
##	"-3.154"	"27"	"47.24"	"6.417"
##	"-3.155"	"1"	"9.89"	"2.817"
##	"-3.158"	"3"	"12.72"	"3.078"
##	"-3.158"	"5"	"19.29"	"4.524"
##	"-3.159"	"0"	"10.17"	"3.219"
##	"-3.16"	"4"	"16.39"	"3.921"
##	"-3.16"	"0"	"10.33"	"3.269"
##	"-3.16"	"9"	"23.34"	"4.538"
##	"-3.161"	"18"	"37.66"	"6.219"
##	"-3.162"	"21"	"43.35"	"7.069"
##	"-3.164"	"4"	"15.63"	"3.675"
##	"-3.164"	"6"	"19.41"	"4.238"
##	"-3.164"	"1"	"11.1"	"3.192"
##	"-3.166"	"9"	"25.53"	"5.221"
##	"-3.167"	"0"	"10.57"	"3.337"
##	"-3.168"	"3"	"13.95"	"3.456"
##	"-3.168"	"2"	"12.87"	"3.431"
##	"-3.17"	"30"	"51.08"	"6.649"
##	"-3.17"	"2"	"11.8"	"3.091"
##	"-3.174"	"1"	"9.25"	"2.599"
##	"-3.175"	"0"	"9.45"	"2.976"
##	"-3.18"	"0"	"8.38"	"2.635"
##	"-3.181"	"4"	"15.86"	"3.728"
##	"-3.181"	"3"	"14.93"	"3.75"
##	"-3.184"	"15"	"31.35"	"5.135"
##	"-3.186"	"11"	"24.37"	"4.196"

##	"-3.187"	"0"	"9.56"	"2.999"
##	"-3.187"	"8"	"24.93"	"5.313"
##	"-3.189"	"9"	"23.46"	"4.534"
##	"-3.19"	"3"	"13.09"	"3.163"
##	"-3.19"	"3"	"13.62"	"3.33"
##	"-3.19"	"1"	"12.96"	"3.75"
##	"-3.19"	"146"	"190.92"	"14.08"
##	"-3.191"	"3"	"15.12"	"3.799"
##	"-3.191"	"6"	"18.32"	"3.861"
##	"-3.194"	"2"	"12.37"	"3.246"
##	"-3.195"	"3"	"13.04"	"3.143"
##	"-3.195"	"8"	"24.27"	"5.093"
##	"-3.195"	"1"	"11.18"	"3.186"
##	"-3.195"	"3"	"13.04"	"3.143"
##	"-3.196"	"2"	"11.36"	"2.929"
##	"-3.199"	"3"	"12.82"	"3.069"
##	"-3.199"	"0"	"9.43"	"2.948"
##	"-3.202"	"0"	"7.91"	"2.47"
##	"-3.202"	"5"	"18.67"	"4.269"
##	"-3.203"	"10"	"28.81"	"5.872"
##	"-3.204"	"7"	"23.79"	"5.24"
##	"-3.204"	"7"	"23.79"	"5.24"
##	"-3.205"	"1"	"10.93"	"3.099"
##	"-3.206"	"20"	"38.17"	"5.668"
##	"-3.206"	"3"	"14.74"	"3.661"
##	"-3.206"	"10"	"25.81"	"4.931"
##	"-3.207"	"2"	"13.08"	"3.454"
##	"-3.211"	"1"	"11.69"	"3.329"
##	"-3.213"	"3"	"13.38"	"3.231"
##	"-3.214"	"12"	"26.61"	"4.546"
##	"-3.215"	"39"	"62.33"	"7.256"
##	"-3.215"	"0"	"10"	"3.111"
##	"-3.218"	"4"	"16.08"	"3.754"
##	"-3.221"	"37"	"60.17"	"7.194"
##	"-3.222"	"45"	"67.99"	"7.136"
##	"-3.225"	"5"	"18.84"	"4.292"
##	"-3.226"	"1"	"12.9"	"3.689"
##	"-3.228"	"10"	"25.27"	"4.731"
##	"-3.229"	"53"	"83.09"	"9.319"
##	"-3.231"	"12"	"29.56"	"5.435"
##	"-3.232"	"32"	"53.56"	"6.672"
##	"-3.234"	"1"	"11.62"	"3.284"
##	"-3.235"	"22"	"41.07"	"5.895"
##	"-3.235"	"5"	"20.01"	"4.64"
##	"-3.236"	"8"	"20.05"	"3.724"
##	"-3.237"	"1"	"13.45"	"3.846"
##	"-3.237"	"2"	"13.4"	"3.522"
##	"-3.238"	"23"	"45.41"	"6.921"
##	"-3.239"	"10"	"23.49"	"4.165"
##	"-3.24"	"2"	"16.45"	"4.459"
##	"-3.241"	"1"	"12.96"	"3.69"
##	"-3.242"	"11"	"27.85"	"5.198"
##	"-3.243"	"7"	"19.02"	"3.706"
##	"-3.244"	"92"	"128.63"	"11.291"

##	"-3.247"	"27"	"47.37"	"6.274"
##	"-3.249"	"24"	"44.3"	"6.248"
##	"-3.25"	"0"	"8.1"	"2.492"
##	"-3.251"	"6"	"18.87"	"3.959"
##	"-3.253"	"424"	"500.15"	"23.412"
##	"-3.255"	"0"	"11.61"	"3.567"
##	"-3.256"	"99"	"132.52"	"10.294"
##	"-3.257"	"5"	"18.02"	"3.997"
##	"-3.258"	"2"	"13.67"	"3.582"
##	"-3.259"	"56"	"85.99"	"9.201"
##	"-3.26"	"171"	"215.59"	"13.676"
##	"-3.261"	"1"	"11.68"	"3.275"
##	"-3.262"	"8"	"24.59"	"5.085"
##	"-3.263"	"0"	"8.58"	"2.629"
##	"-3.265"	"5"	"19.81"	"4.536"
##	"-3.266"	"44"	"72.79"	"8.815"
##	"-3.266"	"4"	"18.25"	"4.363"
##	"-3.269"	"5"	"17.35"	"3.778"
##	"-3.269"	"0"	"10.39"	"3.178"
##	"-3.273"	"0"	"9.56"	"2.921"
##	"-3.273"	"3"	"14.35"	"3.468"
##	"-3.274"	"9"	"25.08"	"4.911"
##	"-3.275"	"0"	"11.94"	"3.645"
##	"-3.276"	"4"	"16.4"	"3.785"
##	"-3.277"	"2"	"15"	"3.967"
##	"-3.278"	"8"	"23.93"	"4.86"
##	"-3.278"	"27"	"49.99"	"7.013"
##	"-3.279"	"1"	"11.66"	"3.251"
##	"-3.28"	"47"	"71.43"	"7.447"
##	"-3.281"	"9"	"23.72"	"4.486"
##	"-3.283"	"4"	"17.69"	"4.17"
##	"-3.285"	"38"	"62.45"	"7.442"
##	"-3.286"	"24"	"43.88"	"6.049"
##	"-3.287"	"83"	"119.82"	"11.203"
##	"-3.288"	"1"	"15.33"	"4.358"
##	"-3.288"	"8"	"20.5"	"3.802"
##	"-3.291"	"2"	"11.5"	"2.887"
##	"-3.294"	"5"	"18.73"	"4.168"
##	"-3.294"	"4"	"17.61"	"4.131"
##	"-3.294"	"5"	"18.79"	"4.186"
##	"-3.295"	"4"	"16.43"	"3.772"
##	"-3.296"	"25"	"44.05"	"5.779"
##	"-3.297"	"4"	"15.52"	"3.495"
##	"-3.3"	"7"	"22.75"	"4.772"
##	"-3.3"	"0"	"8.21"	"2.488"
##	"-3.3"	"1"	"9.92"	"2.703"
##	"-3.3"	"3"	"15.44"	"3.769"
##	"-3.301"	"19"	"37.92"	"5.731"
##	"-3.304"	"0"	"11.98"	"3.626"
##	"-3.305"	"47"	"73.75"	"8.093"
##	"-3.305"	"2"	"13.05"	"3.344"
##	"-3.307"	"12"	"30.72"	"5.661"
##	"-3.308"	"2"	"13.71"	"3.54"
##	"-3.309"	"1"	"11.4"	"3.143"

##	"-3.309"	"7"	"21.65"	"4.428"
##	"-3.309"	"18"	"39.02"	"6.352"
##	"-3.309"	"88"	"120.47"	"9.812"
##	"-3.309"	"1"	"11.4"	"3.143"
##	"-3.31"	"0"	"10.07"	"3.043"
##	"-3.31"	"81"	"111.73"	"9.283"
##	"-3.31"	"8"	"26.95"	"5.725"
##	"-3.311"	"36"	"58.6"	"6.825"
##	"-3.311"	"2"	"12.78"	"3.255"
##	"-3.311"	"5"	"15.95"	"3.307"
##	"-3.313"	"0"	"10.34"	"3.121"
##	"-3.313"	"7"	"20.48"	"4.069"
##	"-3.313"	"3"	"18.28"	"4.612"
##	"-3.314"	"46"	"72.24"	"7.919"
##	"-3.314"	"6"	"20.28"	"4.309"
##	"-3.315"	"0"	"7.8"	"2.353"
##	"-3.316"	"5"	"18.5"	"4.071"
##	"-3.319"	"2"	"11.03"	"2.721"
##	"-3.32"	"1"	"10.91"	"2.985"
##	"-3.321"	"0"	"10.78"	"3.246"
##	"-3.323"	"2"	"13.97"	"3.603"
##	"-3.326"	"38"	"63.26"	"7.594"
##	"-3.328"	"0"	"7.79"	"2.341"
##	"-3.329"	"1"	"10.27"	"2.785"
##	"-3.329"	"1"	"11.19"	"3.061"
##	"-3.331"	"2"	"13.82"	"3.549"
##	"-3.334"	"3"	"14.26"	"3.377"
##	"-3.336"	"1"	"15.28"	"4.281"
##	"-3.337"	"7"	"21.02"	"4.202"
##	"-3.338"	"0"	"8.66"	"2.595"
##	"-3.338"	"3"	"15.76"	"3.822"
##	"-3.34"	"166"	"211.95"	"13.757"
##	"-3.341"	"3"	"13.45"	"3.128"
##	"-3.341"	"15"	"33.1"	"5.417"
##	"-3.342"	"31"	"56.37"	"7.591"
##	"-3.342"	"4"	"16.31"	"3.684"
##	"-3.342"	"48"	"78.39"	"9.093"
##	"-3.346"	"94"	"130.44"	"10.891"
##	"-3.346"	"1"	"10.94"	"2.971"
##	"-3.35"	"0"	"9.94"	"2.967"
##	"-3.351"	"5"	"19.7"	"4.387"
##	"-3.351"	"4"	"17.5"	"4.029"
##	"-3.352"	"1"	"11.01"	"2.986"
##	"-3.352"	"1"	"11.62"	"3.168"
##	"-3.353"	"2"	"12.42"	"3.108"
##	"-3.357"	"0"	"7.39"	"2.201"
##	"-3.36"	"53"	"80.41"	"8.159"
##	"-3.361"	"4"	"16.46"	"3.708"
##	"-3.361"	"0"	"11.47"	"3.413"
##	"-3.362"	"8"	"22.97"	"4.453"
##	"-3.364"	"8"	"23.59"	"4.634"
##	"-3.365"	"0"	"10.76"	"3.198"
##	"-3.366"	"0"	"9.24"	"2.746"
##	"-3.367"	"21"	"40.89"	"5.907"

##	"-3.368"	"2"	"13.04"	"3.278"
##	"-3.37"	"1"	"12.95"	"3.546"
##	"-3.371"	"2"	"14.33"	"3.657"
##	"-3.372"	"2"	"14.3"	"3.647"
##	"-3.375"	"1"	"12.88"	"3.52"
##	"-3.377"	"12"	"26.71"	"4.356"
##	"-3.38"	"11"	"26.82"	"4.68"
##	"-3.38"	"0"	"7.74"	"2.29"
##	"-3.383"	"0"	"11.29"	"3.337"
##	"-3.384"	"1"	"11.93"	"3.229"
##	"-3.385"	"0"	"9.86"	"2.913"
##	"-3.39"	"6"	"18.91"	"3.809"
##	"-3.39"	"17"	"36.98"	"5.893"
##	"-3.391"	"5"	"16.12"	"3.279"
##	"-3.391"	"1"	"13.57"	"3.707"
##	"-3.393"	"15"	"32.46"	"5.145"
##	"-3.395"	"4"	"17.17"	"3.88"
##	"-3.397"	"2"	"14.64"	"3.721"
##	"-3.398"	"79"	"110.99"	"9.415"
##	"-3.399"	"1"	"12.52"	"3.389"
##	"-3.403"	"14"	"33.78"	"5.813"
##	"-3.403"	"13"	"32.46"	"5.718"
##	"-3.403"	"4"	"19.35"	"4.511"
##	"-3.405"	"3"	"17"	"4.112"
##	"-3.405"	"13"	"30.45"	"5.125"
##	"-3.408"	"24"	"43.34"	"5.675"
##	"-3.409"	"3"	"14.21"	"3.288"
##	"-3.41"	"1"	"12.69"	"3.428"
##	"-3.41"	"7"	"21.95"	"4.384"
##	"-3.411"	"15"	"34.06"	"5.588"
##	"-3.414"	"14"	"31.16"	"5.027"
##	"-3.416"	"0"	"11.43"	"3.346"
##	"-3.419"	"34"	"60.13"	"7.642"
##	"-3.419"	"14"	"34.12"	"5.885"
##	"-3.419"	"2"	"12.29"	"3.009"
##	"-3.419"	"2"	"16.41"	"4.214"
##	"-3.42"	"1"	"11.44"	"3.053"
##	"-3.42"	"8"	"24.79"	"4.91"
##	"-3.421"	"4"	"15.19"	"3.271"
##	"-3.422"	"18"	"42.24"	"7.084"
##	"-3.426"	"2"	"12.41"	"3.039"
##	"-3.427"	"110"	"156.39"	"13.535"
##	"-3.427"	"3"	"13.76"	"3.14"
##	"-3.429"	"249"	"310.48"	"17.932"
##	"-3.43"	"0"	"11.84"	"3.452"
##	"-3.43"	"0"	"10.27"	"2.994"
##	"-3.431"	"4"	"17.88"	"4.046"
##	"-3.433"	"0"	"9.03"	"2.63"
##	"-3.435"	"1"	"12.66"	"3.394"
##	"-3.436"	"0"	"9.67"	"2.814"
##	"-3.437"	"68"	"98.99"	"9.016"
##	"-3.444"	"18"	"36.49"	"5.368"
##	"-3.444"	"1"	"11.56"	"3.066"
##	"-3.445"	"0"	"9.45"	"2.743"

##	"-3.446"	"69"	"103.64"	"10.053"
##	"-3.451"	"9"	"27.4"	"5.331"
##	"-3.452"	"2"	"16.32"	"4.148"
##	"-3.452"	"7"	"24.3"	"5.012"
##	"-3.453"	"9"	"21.14"	"3.516"
##	"-3.456"	"81"	"116.75"	"10.343"
##	"-3.456"	"1"	"13.99"	"3.759"
##	"-3.456"	"33"	"56.88"	"6.91"
##	"-3.458"	"7"	"24.78"	"5.142"
##	"-3.46"	"131"	"177.12"	"13.329"
##	"-3.46"	"15"	"33.62"	"5.382"
##	"-3.461"	"1"	"10.01"	"2.603"
##	"-3.463"	"2"	"15.22"	"3.818"
##	"-3.463"	"4"	"16.01"	"3.468"
##	"-3.465"	"44"	"71.46"	"7.924"
##	"-3.467"	"0"	"13.08"	"3.773"
##	"-3.468"	"115"	"158.12"	"12.435"
##	"-3.468"	"54"	"83.03"	"8.371"
##	"-3.469"	"1"	"16.25"	"4.396"
##	"-3.472"	"5"	"20.46"	"4.453"
##	"-3.472"	"11"	"25.32"	"4.124"
##	"-3.474"	"133"	"180.64"	"13.713"
##	"-3.476"	"1"	"10.85"	"2.833"
##	"-3.478"	"66"	"93.63"	"7.945"
##	"-3.479"	"17"	"39.17"	"6.372"
##	"-3.483"	"0"	"8.81"	"2.529"
##	"-3.483"	"43"	"70.55"	"7.909"
##	"-3.484"	"21"	"42.79"	"6.254"
##	"-3.485"	"8"	"23.55"	"4.462"
##	"-3.488"	"15"	"35.75"	"5.948"
##	"-3.49"	"30"	"52.46"	"6.436"
##	"-3.49"	"3"	"15.2"	"3.496"
##	"-3.493"	"2"	"15.79"	"3.947"
##	"-3.495"	"3"	"17.48"	"4.143"
##	"-3.497"	"1"	"12.47"	"3.28"
##	"-3.498"	"0"	"11.08"	"3.168"
##	"-3.5"	"5"	"21.29"	"4.654"
##	"-3.501"	"7"	"23.89"	"4.824"
##	"-3.504"	"21"	"41.98"	"5.988"
##	"-3.505"	"130"	"170.1"	"11.44"
##	"-3.506"	"1"	"12.18"	"3.189"
##	"-3.506"	"11"	"29.49"	"5.273"
##	"-3.507"	"0"	"11.86"	"3.382"
##	"-3.508"	"8"	"23.23"	"4.341"
##	"-3.509"	"1"	"12.56"	"3.295"
##	"-3.513"	"6"	"21.76"	"4.486"
##	"-3.513"	"38"	"61.12"	"6.582"
##	"-3.514"	"4"	"16.51"	"3.56"
##	"-3.515"	"1"	"15.3"	"4.069"
##	"-3.515"	"0"	"12.24"	"3.482"
##	"-3.516"	"2"	"18.07"	"4.571"
##	"-3.516"	"93"	"125.6"	"9.271"
##	"-3.516"	"1"	"11.5"	"2.987"
##	"-3.517"	"10"	"30.79"	"5.911"

##	"-3.519"	"3"	"18.26"	"4.336"
##	"-3.52"	"1"	"13.65"	"3.594"
##	"-3.522"	"1"	"12.19"	"3.177"
##	"-3.522"	"3"	"17.18"	"4.026"
##	"-3.522"	"1"	"13.55"	"3.563"
##	"-3.523"	"2"	"16.35"	"4.074"
##	"-3.524"	"1"	"11.26"	"2.912"
##	"-3.525"	"0"	"10.43"	"2.958"
##	"-3.526"	"1"	"12.52"	"3.267"
##	"-3.526"	"51"	"79.43"	"8.062"
##	"-3.526"	"19"	"38.49"	"5.528"
##	"-3.529"	"3"	"16.72"	"3.888"
##	"-3.531"	"79"	"114.74"	"10.123"
##	"-3.531"	"25"	"48.83"	"6.75"
##	"-3.531"	"73"	"103.66"	"8.682"
##	"-3.531"	"3"	"14.45"	"3.242"
##	"-3.535"	"16"	"35.35"	"5.474"
##	"-3.538"	"8"	"25.18"	"4.856"
##	"-3.539"	"762"	"866.64"	"29.568"
##	"-3.539"	"16"	"36.33"	"5.744"
##	"-3.544"	"125"	"170.24"	"12.767"
##	"-3.544"	"1"	"15.38"	"4.057"
##	"-3.545"	"5"	"21.39"	"4.623"
##	"-3.546"	"144"	"195.19"	"14.437"
##	"-3.547"	"3"	"17.09"	"3.972"
##	"-3.547"	"15"	"38.51"	"6.628"
##	"-3.548"	"0"	"10.87"	"3.064"
##	"-3.549"	"0"	"12.68"	"3.573"
##	"-3.549"	"1"	"11.22"	"2.88"
##	"-3.55"	"13"	"34.83"	"6.15"
##	"-3.551"	"2"	"14.53"	"3.529"
##	"-3.553"	"0"	"8.18"	"2.302"
##	"-3.553"	"27"	"53.61"	"7.49"
##	"-3.554"	"9"	"27.51"	"5.208"
##	"-3.559"	"49"	"84.69"	"10.028"
##	"-3.56"	"4"	"19.29"	"4.295"
##	"-3.567"	"40"	"64.57"	"6.888"
##	"-3.567"	"31"	"56.38"	"7.115"
##	"-3.567"	"14"	"31.12"	"4.8"
##	"-3.569"	"22"	"48.36"	"7.385"
##	"-3.569"	"0"	"13.14"	"3.682"
##	"-3.571"	"2"	"15.66"	"3.825"
##	"-3.572"	"3"	"14.73"	"3.284"
##	"-3.573"	"32"	"54.98"	"6.432"
##	"-3.574"	"0"	"9.47"	"2.649"
##	"-3.575"	"23"	"40.97"	"5.026"
##	"-3.579"	"219"	"286.3"	"18.805"
##	"-3.58"	"477"	"557.78"	"22.566"
##	"-3.581"	"25"	"45.51"	"5.727"
##	"-3.583"	"212"	"268"	"15.631"
##	"-3.583"	"36"	"62.78"	"7.475"
##	"-3.583"	"83"	"120.43"	"10.447"
##	"-3.585"	"8"	"26.27"	"5.097"
##	"-3.588"	"0"	"14.07"	"3.922"

##	"-3.588"	"0"	"11.83"	"3.297"
##	"-3.592"	"37"	"62.41"	"7.074"
##	"-3.592"	"2"	"13.23"	"3.126"
##	"-3.593"	"9"	"25.27"	"4.528"
##	"-3.594"	"36"	"62.06"	"7.251"
##	"-3.594"	"5"	"19.33"	"3.987"
##	"-3.597"	"44"	"72.37"	"7.888"
##	"-3.597"	"3"	"18.3"	"4.253"
##	"-3.598"	"28"	"48.6"	"5.726"
##	"-3.598"	"16"	"37.86"	"6.075"
##	"-3.599"	"1"	"13.96"	"3.601"
##	"-3.603"	"3"	"18.6"	"4.33"
##	"-3.603"	"28"	"50.55"	"6.259"
##	"-3.604"	"3"	"16.04"	"3.618"
##	"-3.605"	"0"	"11.33"	"3.143"
##	"-3.606"	"2"	"16.83"	"4.112"
##	"-3.606"	"2"	"16.83"	"4.112"
##	"-3.607"	"10"	"30.66"	"5.728"
##	"-3.608"	"0"	"12.71"	"3.523"
##	"-3.608"	"6"	"24.59"	"5.152"
##	"-3.609"	"16"	"34.3"	"5.07"
##	"-3.61"	"12"	"28.41"	"4.546"
##	"-3.614"	"100"	"136.39"	"10.069"
##	"-3.616"	"0"	"13.98"	"3.866"
##	"-3.616"	"5"	"20.86"	"4.386"
##	"-3.617"	"2"	"13.61"	"3.21"
##	"-3.619"	"16"	"38.93"	"6.336"
##	"-3.62"	"1"	"13.48"	"3.448"
##	"-3.62"	"1"	"13.11"	"3.345"
##	"-3.62"	"70"	"108.73"	"10.7"
##	"-3.622"	"1"	"14.03"	"3.597"
##	"-3.624"	"38"	"70.93"	"9.086"
##	"-3.629"	"0"	"14.99"	"4.13"
##	"-3.631"	"124"	"175.94"	"14.305"
##	"-3.632"	"18"	"38.73"	"5.708"
##	"-3.633"	"1"	"14.29"	"3.658"
##	"-3.634"	"113"	"161.49"	"13.344"
##	"-3.634"	"0"	"12.05"	"3.316"
##	"-3.634"	"54"	"84.3"	"8.338"
##	"-3.635"	"4"	"20.32"	"4.49"
##	"-3.636"	"1"	"13.18"	"3.35"
##	"-3.637"	"3"	"17.76"	"4.058"
##	"-3.64"	"39"	"65.67"	"7.328"
##	"-3.643"	"8"	"26.52"	"5.084"
##	"-3.643"	"2"	"16.32"	"3.931"
##	"-3.644"	"3"	"19.42"	"4.506"
##	"-3.645"	"54"	"90.33"	"9.967"
##	"-3.646"	"2"	"15.83"	"3.793"
##	"-3.647"	"89"	"132.38"	"11.893"
##	"-3.65"	"2"	"18.01"	"4.387"
##	"-3.65"	"13"	"33.75"	"5.684"
##	"-3.65"	"2"	"14.15"	"3.328"
##	"-3.653"	"2"	"16.07"	"3.851"
##	"-3.654"	"2"	"14.48"	"3.416"

##	"-3.654"	"4"	"19.55"	"4.255"
##	"-3.654"	"0"	"11.14"	"3.048"
##	"-3.654"	"16"	"35.48"	"5.33"
##	"-3.661"	"1"	"13.75"	"3.483"
##	"-3.661"	"13"	"33.83"	"5.689"
##	"-3.661"	"1"	"14.58"	"3.71"
##	"-3.661"	"2"	"12.93"	"2.986"
##	"-3.662"	"1"	"13.62"	"3.446"
##	"-3.665"	"486"	"570.67"	"23.105"
##	"-3.668"	"58"	"91.43"	"9.115"
##	"-3.671"	"50"	"83.83"	"9.215"
##	"-3.676"	"1"	"13.01"	"3.268"
##	"-3.677"	"0"	"11.56"	"3.144"
##	"-3.68"	"15"	"36.73"	"5.905"
##	"-3.68"	"16"	"38.47"	"6.106"
##	"-3.681"	"13"	"34.49"	"5.839"
##	"-3.686"	"24"	"48.51"	"6.649"
##	"-3.687"	"61"	"96.24"	"9.559"
##	"-3.687"	"5"	"22.25"	"4.678"
##	"-3.687"	"0"	"13.9"	"3.77"
##	"-3.688"	"4"	"17.72"	"3.72"
##	"-3.689"	"1"	"13.08"	"3.274"
##	"-3.69"	"2"	"16.29"	"3.872"
##	"-3.691"	"7"	"27.99"	"5.686"
##	"-3.695"	"0"	"11.26"	"3.047"
##	"-3.696"	"4"	"22.17"	"4.916"
##	"-3.696"	"2"	"15.5"	"3.653"
##	"-3.698"	"0"	"13.53"	"3.658"
##	"-3.698"	"16"	"36"	"5.409"
##	"-3.703"	"6"	"24.85"	"5.09"
##	"-3.707"	"2"	"14.64"	"3.41"
##	"-3.708"	"2"	"12.94"	"2.95"
##	"-3.708"	"21"	"44.94"	"6.455"
##	"-3.71"	"0"	"13.14"	"3.542"
##	"-3.71"	"1"	"15.9"	"4.016"
##	"-3.71"	"59"	"94.68"	"9.618"
##	"-3.711"	"90"	"129.82"	"10.73"
##	"-3.711"	"425"	"506.1"	"21.853"
##	"-3.72"	"2"	"18.05"	"4.314"
##	"-3.721"	"14"	"33.92"	"5.354"
##	"-3.729"	"98"	"138.05"	"10.742"
##	"-3.729"	"0"	"13.24"	"3.551"
##	"-3.729"	"22"	"49.7"	"7.428"
##	"-3.73"	"5"	"20.69"	"4.206"
##	"-3.734"	"2"	"15.86"	"3.712"
##	"-3.735"	"0"	"15.15"	"4.056"
##	"-3.739"	"68"	"102.87"	"9.326"
##	"-3.741"	"0"	"13.53"	"3.617"
##	"-3.742"	"658"	"760.17"	"27.302"
##	"-3.745"	"109"	"156.02"	"12.555"
##	"-3.746"	"23"	"49.76"	"7.144"
##	"-3.748"	"19"	"43.64"	"6.574"
##	"-3.748"	"10"	"28"	"4.803"
##	"-3.75"	"1"	"15.38"	"3.834"

##	"-3.754"	"30"	"60.1"	"8.018"
##	"-3.754"	"54"	"83.23"	"7.787"
##	"-3.754"	"81"	"124.94"	"11.706"
##	"-3.755"	"3"	"14.87"	"3.161"
##	"-3.755"	"2"	"18.73"	"4.456"
##	"-3.758"	"18"	"43.37"	"6.75"
##	"-3.762"	"13"	"35.58"	"6.002"
##	"-3.762"	"1"	"17.67"	"4.431"
##	"-3.765"	"7"	"23.79"	"4.459"
##	"-3.766"	"0"	"12.63"	"3.353"
##	"-3.769"	"5"	"24.56"	"5.19"
##	"-3.769"	"7"	"27.93"	"5.553"
##	"-3.77"	"1"	"15.53"	"3.855"
##	"-3.773"	"26"	"52"	"6.892"
##	"-3.773"	"11"	"30.19"	"5.087"
##	"-3.774"	"0"	"12.57"	"3.331"
##	"-3.778"	"2"	"16.55"	"3.852"
##	"-3.778"	"24"	"52.87"	"7.642"
##	"-3.78"	"22"	"50.42"	"7.519"
##	"-3.781"	"0"	"14.78"	"3.91"
##	"-3.782"	"0"	"13.05"	"3.451"
##	"-3.782"	"4"	"17.54"	"3.58"
##	"-3.783"	"44"	"75.57"	"8.345"
##	"-3.784"	"45"	"77.03"	"8.464"
##	"-3.785"	"1"	"15.22"	"3.757"
##	"-3.785"	"1"	"14.23"	"3.496"
##	"-3.786"	"10"	"29.65"	"5.19"
##	"-3.786"	"11"	"29.33"	"4.841"
##	"-3.788"	"0"	"14.36"	"3.791"
##	"-3.79"	"55"	"85.07"	"7.934"
##	"-3.792"	"1"	"15.97"	"3.948"
##	"-3.794"	"15"	"37.61"	"5.959"
##	"-3.795"	"10"	"32.33"	"5.885"
##	"-3.795"	"15"	"38.19"	"6.111"
##	"-3.795"	"3"	"19.02"	"4.221"
##	"-3.796"	"1"	"14.14"	"3.461"
##	"-3.797"	"11"	"29.47"	"4.865"
##	"-3.797"	"106"	"151.35"	"11.945"
##	"-3.801"	"15"	"37.25"	"5.854"
##	"-3.803"	"9"	"31.08"	"5.806"
##	"-3.808"	"4"	"19.91"	"4.178"
##	"-3.809"	"0"	"10.8"	"2.836"
##	"-3.812"	"15"	"38.4"	"6.138"
##	"-3.812"	"6"	"26.84"	"5.467"
##	"-3.813"	"62"	"100.95"	"10.215"
##	"-3.816"	"12"	"35.86"	"6.252"
##	"-3.817"	"3"	"19.88"	"4.423"
##	"-3.817"	"23"	"50.33"	"7.159"
##	"-3.818"	"1"	"16.71"	"4.115"
##	"-3.82"	"25"	"52.88"	"7.298"
##	"-3.821"	"2"	"17.44"	"4.041"
##	"-3.822"	"1"	"13.79"	"3.346"
##	"-3.822"	"15"	"35.79"	"5.439"
##	"-3.822"	"10"	"32.31"	"5.837"

##	"-3.826"	"31"	"56.22"	"6.591"
##	"-3.827"	"5"	"21.53"	"4.319"
##	"-3.827"	"4"	"20.33"	"4.267"
##	"-3.829"	"78"	"110.21"	"8.413"
##	"-3.832"	"4"	"19.93"	"4.157"
##	"-3.832"	"5"	"24.6"	"5.115"
##	"-3.835"	"4"	"24.29"	"5.29"
##	"-3.836"	"15"	"36.8"	"5.684"
##	"-3.836"	"1"	"19.58"	"4.843"
##	"-3.846"	"11"	"36.39"	"6.601"
##	"-3.848"	"1"	"16.54"	"4.039"
##	"-3.85"	"12"	"32.09"	"5.219"
##	"-3.85"	"23"	"49.61"	"6.912"
##	"-3.85"	"1"	"18.4"	"4.519"
##	"-3.857"	"14"	"38.59"	"6.376"
##	"-3.857"	"2"	"19.12"	"4.439"
##	"-3.858"	"9"	"28.43"	"5.036"
##	"-3.859"	"4"	"19.8"	"4.095"
##	"-3.86"	"1"	"19.51"	"4.796"
##	"-3.863"	"163"	"217.8"	"14.184"
##	"-3.864"	"3"	"19.78"	"4.343"
##	"-3.864"	"3"	"19.75"	"4.335"
##	"-3.867"	"4"	"19.06"	"3.895"
##	"-3.869"	"58"	"91.06"	"8.546"
##	"-3.872"	"1"	"16.85"	"4.093"
##	"-3.873"	"12"	"34.69"	"5.858"
##	"-3.874"	"10"	"31.47"	"5.542"
##	"-3.874"	"0"	"12.16"	"3.139"
##	"-3.874"	"3"	"21.63"	"4.809"
##	"-3.876"	"24"	"47.68"	"6.11"
##	"-3.876"	"3"	"18.17"	"3.913"
##	"-3.877"	"154"	"212.37"	"15.055"
##	"-3.877"	"20"	"45.75"	"6.641"
##	"-3.878"	"1"	"14.97"	"3.603"
##	"-3.884"	"100"	"149.88"	"12.842"
##	"-3.885"	"8"	"27.75"	"5.084"
##	"-3.889"	"238"	"304.98"	"17.222"
##	"-3.892"	"40"	"66.28"	"6.753"
##	"-3.895"	"4"	"19.98"	"4.102"
##	"-3.895"	"3"	"20.31"	"4.444"
##	"-3.896"	"30"	"59.98"	"7.695"
##	"-3.897"	"9"	"30.29"	"5.463"
##	"-3.898"	"14"	"34.38"	"5.228"
##	"-3.9"	"115"	"165.51"	"12.951"
##	"-3.901"	"5"	"20.99"	"4.099"
##	"-3.903"	"6"	"24.35"	"4.702"
##	"-3.905"	"8"	"30.45"	"5.75"
##	"-3.906"	"18"	"41.64"	"6.053"
##	"-3.909"	"2"	"16.67"	"3.753"
##	"-3.912"	"323"	"388.17"	"16.658"
##	"-3.919"	"1"	"17.46"	"4.201"
##	"-3.919"	"1"	"11.53"	"2.687"
##	"-3.929"	"5"	"20.36"	"3.909"
##	"-3.93"	"6"	"26.25"	"5.153"

##	"-3.93"	"2"	"21.86"	"5.053"
##	"-3.933"	"2"	"16.6"	"3.712"
##	"-3.934"	"2"	"19.61"	"4.476"
##	"-3.934"	"159"	"213.42"	"13.832"
##	"-3.935"	"7"	"28.82"	"5.546"
##	"-3.937"	"46"	"73.95"	"7.1"
##	"-3.939"	"1"	"16.15"	"3.846"
##	"-3.94"	"5"	"23.91"	"4.799"
##	"-3.943"	"0"	"16.68"	"4.23"
##	"-3.943"	"9"	"32.64"	"5.996"
##	"-3.943"	"42"	"78.73"	"9.315"
##	"-3.946"	"9"	"32.59"	"5.978"
##	"-3.948"	"4"	"24.05"	"5.078"
##	"-3.949"	"15"	"40.92"	"6.564"
##	"-3.949"	"14"	"41.2"	"6.887"
##	"-3.953"	"110"	"159.24"	"12.458"
##	"-3.955"	"1"	"18.4"	"4.399"
##	"-3.958"	"1"	"18"	"4.295"
##	"-3.96"	"1"	"17.7"	"4.218"
##	"-3.962"	"13"	"35.92"	"5.785"
##	"-3.967"	"0"	"14.26"	"3.595"
##	"-3.967"	"43"	"71.59"	"7.207"
##	"-3.967"	"60"	"109.31"	"12.43"
##	"-3.967"	"2"	"15.39"	"3.375"
##	"-3.97"	"7"	"23.55"	"4.169"
##	"-3.973"	"1"	"16.47"	"3.894"
##	"-3.974"	"20"	"45.77"	"6.485"
##	"-3.974"	"0"	"12.72"	"3.201"
##	"-3.975"	"10"	"29.18"	"4.825"
##	"-3.975"	"184"	"251.41"	"16.958"
##	"-3.976"	"239"	"301.88"	"15.817"
##	"-3.98"	"1"	"15.62"	"3.673"
##	"-3.984"	"20"	"50.07"	"7.548"
##	"-3.986"	"3"	"18.53"	"3.896"
##	"-3.988"	"8"	"28.03"	"5.022"
##	"-3.989"	"1"	"17.69"	"4.184"
##	"-3.99"	"15"	"32.16"	"4.301"
##	"-3.99"	"9"	"28.87"	"4.98"
##	"-3.996"	"44"	"76.32"	"8.088"
##	"-4"	"59"	"95.32"	"9.081"
##	"-4.001"	"68"	"107.74"	"9.932"
##	"-4.002"	"56"	"91.58"	"8.89"
##	"-4.002"	"1"	"14.98"	"3.493"
##	"-4.003"	"2"	"16.49"	"3.62"
##	"-4.005"	"4"	"23.62"	"4.899"
##	"-4.007"	"1"	"17.82"	"4.198"
##	"-4.008"	"0"	"13.86"	"3.458"
##	"-4.014"	"3"	"20.31"	"4.313"
##	"-4.016"	"6"	"22.49"	"4.106"
##	"-4.017"	"17"	"42.42"	"6.328"
##	"-4.019"	"106"	"155.3"	"12.267"
##	"-4.024"	"1"	"18.32"	"4.304"
##	"-4.025"	"0"	"12.84"	"3.19"
##	"-4.026"	"23"	"54.51"	"7.827"

##	"-4.026"	"34"	"63.71"	"7.379"
##	"-4.028"	"0"	"12.47"	"3.096"
##	"-4.029"	"130"	"179.75"	"12.349"
##	"-4.03"	"5"	"23.31"	"4.543"
##	"-4.032"	"19"	"46.27"	"6.763"
##	"-4.036"	"3"	"21.39"	"4.557"
##	"-4.037"	"4"	"19.53"	"3.847"
##	"-4.042"	"525"	"623.7"	"24.42"
##	"-4.047"	"9"	"31.59"	"5.582"
##	"-4.053"	"4"	"20.03"	"3.955"
##	"-4.053"	"4"	"21.33"	"4.276"
##	"-4.056"	"16"	"40.64"	"6.074"
##	"-4.056"	"35"	"69.46"	"8.496"
##	"-4.057"	"8"	"29.17"	"5.219"
##	"-4.061"	"1"	"16.1"	"3.719"
##	"-4.067"	"6"	"24.07"	"4.443"
##	"-4.071"	"0"	"15.71"	"3.859"
##	"-4.071"	"18"	"41.84"	"5.856"
##	"-4.072"	"5"	"23.9"	"4.642"
##	"-4.074"	"1"	"18.85"	"4.382"
##	"-4.075"	"0"	"14.33"	"3.516"
##	"-4.08"	"10"	"31.9"	"5.368"
##	"-4.083"	"0"	"11.04"	"2.704"
##	"-4.085"	"76"	"116.41"	"9.891"
##	"-4.091"	"12"	"35.3"	"5.695"
##	"-4.091"	"102"	"147.86"	"11.209"
##	"-4.096"	"0"	"16.46"	"4.019"
##	"-4.098"	"36"	"62.84"	"6.55"
##	"-4.1"	"37"	"72.12"	"8.566"
##	"-4.102"	"12"	"32.81"	"5.073"
##	"-4.107"	"90"	"135.22"	"11.009"
##	"-4.107"	"20"	"53.34"	"8.118"
##	"-4.109"	"271"	"343.87"	"17.734"
##	"-4.11"	"8"	"30.38"	"5.445"
##	"-4.11"	"3"	"19.31"	"3.969"
##	"-4.112"	"38"	"76.99"	"9.481"
##	"-4.115"	"3"	"17"	"3.402"
##	"-4.115"	"3"	"17"	"3.402"
##	"-4.115"	"3"	"17"	"3.402"
##	"-4.122"	"123"	"171.42"	"11.747"
##	"-4.125"	"84"	"127.3"	"10.497"
##	"-4.125"	"2"	"19.3"	"4.194"
##	"-4.128"	"12"	"38.6"	"6.443"
##	"-4.132"	"19"	"42.41"	"5.666"
##	"-4.133"	"3"	"21.46"	"4.466"
##	"-4.135"	"0"	"11.69"	"2.827"
##	"-4.139"	"2"	"17.73"	"3.8"
##	"-4.152"	"0"	"14.2"	"3.42"
##	"-4.152"	"1"	"19.64"	"4.489"
##	"-4.154"	"5"	"23.2"	"4.381"
##	"-4.155"	"6"	"30.83"	"5.976"
##	"-4.162"	"114"	"163.94"	"12"
##	"-4.166"	"2"	"18.87"	"4.049"
##	"-4.167"	"5"	"27.95"	"5.507"

##	"-4.169"	"200"	"261.83"	"14.832"
##	"-4.169"	"17"	"44.86"	"6.683"
##	"-4.17"	"14"	"41.43"	"6.579"
##	"-4.171"	"5"	"24.77"	"4.739"
##	"-4.174"	"5"	"27.29"	"5.34"
##	"-4.176"	"7"	"30.79"	"5.697"
##	"-4.178"	"6"	"24.65"	"4.464"
##	"-4.178"	"16"	"41.64"	"6.137"
##	"-4.179"	"4"	"24.7"	"4.953"
##	"-4.18"	"9"	"30.14"	"5.057"
##	"-4.181"	"29"	"61.47"	"7.766"
##	"-4.182"	"37"	"65.85"	"6.898"
##	"-4.187"	"26"	"53.37"	"6.538"
##	"-4.192"	"2"	"18.83"	"4.015"
##	"-4.195"	"92"	"136.81"	"10.681"
##	"-4.197"	"0"	"15.56"	"3.707"
##	"-4.199"	"66"	"106.8"	"9.716"
##	"-4.202"	"2"	"20.32"	"4.36"
##	"-4.204"	"315"	"408.66"	"22.279"
##	"-4.208"	"2"	"20.36"	"4.364"
##	"-4.211"	"5"	"24.36"	"4.598"
##	"-4.214"	"45"	"79.58"	"8.206"
##	"-4.215"	"4"	"25.64"	"5.134"
##	"-4.216"	"27"	"56.7"	"7.045"
##	"-4.218"	"7"	"23.49"	"3.909"
##	"-4.229"	"0"	"16.66"	"3.939"
##	"-4.23"	"0"	"14.42"	"3.409"
##	"-4.23"	"5"	"24.07"	"4.509"
##	"-4.234"	"10"	"28.4"	"4.346"
##	"-4.235"	"6"	"22.26"	"3.839"
##	"-4.237"	"7"	"29.85"	"5.392"
##	"-4.241"	"8"	"28.96"	"4.942"
##	"-4.241"	"1"	"16.55"	"3.666"
##	"-4.243"	"1"	"22.48"	"5.062"
##	"-4.245"	"17"	"44.7"	"6.525"
##	"-4.246"	"1"	"17.42"	"3.867"
##	"-4.247"	"68"	"103.39"	"8.334"
##	"-4.25"	"2"	"20.66"	"4.391"
##	"-4.252"	"227"	"297.54"	"16.589"
##	"-4.252"	"10"	"35.91"	"6.094"
##	"-4.257"	"11"	"36.21"	"5.923"
##	"-4.26"	"2"	"22.57"	"4.829"
##	"-4.262"	"111"	"162.28"	"12.033"
##	"-4.269"	"0"	"15.99"	"3.746"
##	"-4.271"	"3"	"20.06"	"3.994"
##	"-4.278"	"18"	"50.75"	"7.655"
##	"-4.284"	"515"	"642.4"	"29.739"
##	"-4.29"	"38"	"77.13"	"9.121"
##	"-4.291"	"33"	"65.34"	"7.536"
##	"-4.292"	"24"	"55.12"	"7.251"
##	"-4.294"	"2"	"19.23"	"4.012"
##	"-4.297"	"11"	"33.34"	"5.199"
##	"-4.31"	"9"	"33.96"	"5.791"
##	"-4.31"	"10"	"33.96"	"5.559"

##	"-4.311"	"14"	"35.02"	"4.876"
##	"-4.314"	"3"	"21.03"	"4.179"
##	"-4.314"	"11"	"36.19"	"5.839"
##	"-4.315"	"97"	"147.24"	"11.642"
##	"-4.32"	"2"	"17.9"	"3.68"
##	"-4.321"	"84"	"132.18"	"11.151"
##	"-4.323"	"92"	"137.61"	"10.55"
##	"-4.324"	"38"	"69.83"	"7.361"
##	"-4.324"	"2"	"17.86"	"3.668"
##	"-4.325"	"7"	"28.91"	"5.065"
##	"-4.328"	"6"	"28.64"	"5.231"
##	"-4.334"	"0"	"14.92"	"3.443"
##	"-4.334"	"3"	"26.28"	"5.371"
##	"-4.335"	"14"	"41"	"6.228"
##	"-4.336"	"5"	"24.64"	"4.529"
##	"-4.34"	"21"	"50.01"	"6.684"
##	"-4.341"	"31"	"62.3"	"7.21"
##	"-4.348"	"13"	"36.7"	"5.45"
##	"-4.349"	"151"	"210.7"	"13.728"
##	"-4.351"	"2"	"18.41"	"3.771"
##	"-4.352"	"284"	"371.72"	"20.156"
##	"-4.353"	"27"	"60.23"	"7.634"
##	"-4.354"	"5"	"28.68"	"5.438"
##	"-4.357"	"3"	"21.56"	"4.26"
##	"-4.358"	"85"	"135.71"	"11.636"
##	"-4.36"	"94"	"144.01"	"11.469"
##	"-4.362"	"6"	"28.29"	"5.109"
##	"-4.362"	"8"	"28.53"	"4.706"
##	"-4.365"	"4"	"24.57"	"4.712"
##	"-4.371"	"13"	"42.85"	"6.829"
##	"-4.371"	"61"	"105.1"	"10.09"
##	"-4.374"	"15"	"42.15"	"6.207"
##	"-4.376"	"1"	"19.85"	"4.307"
##	"-4.379"	"5"	"28.81"	"5.438"
##	"-4.379"	"34"	"74.3"	"9.202"
##	"-4.38"	"40"	"85.46"	"10.378"
##	"-4.381"	"3"	"21.82"	"4.296"
##	"-4.387"	"26"	"57.49"	"7.178"
##	"-4.388"	"61"	"95.36"	"7.831"
##	"-4.389"	"12"	"38.85"	"6.117"
##	"-4.391"	"8"	"31.54"	"5.361"
##	"-4.392"	"224"	"307.88"	"19.099"
##	"-4.396"	"125"	"183.27"	"13.255"
##	"-4.397"	"15"	"40.64"	"5.832"
##	"-4.399"	"8"	"33.08"	"5.701"
##	"-4.403"	"11"	"34.69"	"5.38"
##	"-4.403"	"13"	"39.41"	"5.998"
##	"-4.404"	"3"	"20.89"	"4.062"
##	"-4.404"	"59"	"98.67"	"9.007"
##	"-4.405"	"8"	"28.2"	"4.586"
##	"-4.406"	"7"	"30.81"	"5.404"
##	"-4.412"	"21"	"51.88"	"7"
##	"-4.414"	"13"	"37.71"	"5.598"
##	"-4.425"	"9"	"31.48"	"5.08"

##	"-4.426"	"2"	"25.02"	"5.201"
##	"-4.426"	"24"	"58.01"	"7.684"
##	"-4.426"	"1"	"20.34"	"4.37"
##	"-4.428"	"30"	"63.29"	"7.517"
##	"-4.428"	"74"	"117.94"	"9.924"
##	"-4.429"	"1"	"20.21"	"4.338"
##	"-4.429"	"0"	"21.13"	"4.771"
##	"-4.432"	"0"	"20.98"	"4.733"
##	"-4.437"	"1"	"20.12"	"4.309"
##	"-4.438"	"12"	"41.67"	"6.685"
##	"-4.442"	"15"	"42.66"	"6.227"
##	"-4.444"	"374"	"463.16"	"20.061"
##	"-4.453"	"14"	"38.14"	"5.422"
##	"-4.453"	"8"	"33.89"	"5.813"
##	"-4.454"	"17"	"40.45"	"5.265"
##	"-4.455"	"79"	"136.52"	"12.91"
##	"-4.456"	"1"	"22.52"	"4.829"
##	"-4.456"	"1"	"16.74"	"3.532"
##	"-4.456"	"31"	"65.89"	"7.83"
##	"-4.459"	"0"	"17.35"	"3.891"
##	"-4.463"	"14"	"40.74"	"5.991"
##	"-4.465"	"37"	"68.83"	"7.128"
##	"-4.471"	"18"	"49.19"	"6.976"
##	"-4.486"	"48"	"90.64"	"9.504"
##	"-4.491"	"2"	"20.83"	"4.192"
##	"-4.493"	"32"	"67.2"	"7.834"
##	"-4.494"	"181"	"240.69"	"13.281"
##	"-4.505"	"6"	"31.18"	"5.589"
##	"-4.51"	"2"	"21.59"	"4.344"
##	"-4.51"	"0"	"15.26"	"3.383"
##	"-4.513"	"14"	"40.93"	"5.967"
##	"-4.513"	"7"	"32.46"	"5.642"
##	"-4.514"	"2"	"18.96"	"3.758"
##	"-4.515"	"37"	"72.6"	"7.884"
##	"-4.515"	"9"	"30.11"	"4.675"
##	"-4.516"	"5"	"28.52"	"5.208"
##	"-4.517"	"10"	"33.55"	"5.213"
##	"-4.518"	"5"	"26.28"	"4.71"
##	"-4.534"	"12"	"45.52"	"7.393"
##	"-4.536"	"6"	"30.33"	"5.364"
##	"-4.541"	"17"	"44.98"	"6.161"
##	"-4.542"	"5"	"28.42"	"5.157"
##	"-4.546"	"450"	"580"	"28.594"
##	"-4.55"	"45"	"85.81"	"8.97"
##	"-4.552"	"28"	"62.79"	"7.643"
##	"-4.554"	"60"	"100.18"	"8.823"
##	"-4.56"	"75"	"126.13"	"11.212"
##	"-4.561"	"38"	"77.44"	"8.647"
##	"-4.564"	"72"	"120.76"	"10.684"
##	"-4.564"	"45"	"83.2"	"8.369"
##	"-4.565"	"15"	"44.03"	"6.359"
##	"-4.567"	"7"	"30.86"	"5.224"
##	"-4.569"	"4"	"23.23"	"4.209"
##	"-4.569"	"9"	"36.79"	"6.082"

##	"-4.571"	"88"	"146.89"	"12.885"
##	"-4.582"	"98"	"140.13"	"9.196"
##	"-4.585"	"0"	"12.44"	"2.713"
##	"-4.585"	"8"	"33.33"	"5.525"
##	"-4.586"	"7"	"31.32"	"5.303"
##	"-4.589"	"95"	"148.81"	"11.726"
##	"-4.592"	"4"	"24.04"	"4.365"
##	"-4.593"	"20"	"52.09"	"6.986"
##	"-4.603"	"194"	"254.37"	"13.115"
##	"-4.603"	"9"	"39.58"	"6.644"
##	"-4.603"	"1"	"23.31"	"4.847"
##	"-4.607"	"35"	"68.57"	"7.287"
##	"-4.609"	"48"	"97.69"	"10.782"
##	"-4.615"	"3"	"25.18"	"4.806"
##	"-4.615"	"16"	"49.46"	"7.251"
##	"-4.619"	"5"	"29.2"	"5.24"
##	"-4.619"	"28"	"58.79"	"6.666"
##	"-4.632"	"12"	"41.46"	"6.36"
##	"-4.634"	"20"	"48.88"	"6.232"
##	"-4.643"	"8"	"37.33"	"6.317"
##	"-4.646"	"7"	"33.32"	"5.666"
##	"-4.647"	"12"	"36.89"	"5.356"
##	"-4.648"	"23"	"56.83"	"7.278"
##	"-4.65"	"13"	"36.5"	"5.054"
##	"-4.652"	"0"	"22.36"	"4.806"
##	"-4.662"	"38"	"81.54"	"9.339"
##	"-4.663"	"3"	"29.49"	"5.681"
##	"-4.665"	"16"	"46.13"	"6.458"
##	"-4.668"	"13"	"42.68"	"6.358"
##	"-4.675"	"1"	"18.39"	"3.72"
##	"-4.676"	"8"	"34.14"	"5.59"
##	"-4.679"	"9"	"38.25"	"6.251"
##	"-4.687"	"0"	"22.3"	"4.758"
##	"-4.69"	"0"	"18.56"	"3.958"
##	"-4.691"	"98"	"164.38"	"14.149"
##	"-4.691"	"22"	"54.23"	"6.871"
##	"-4.698"	"11"	"41.34"	"6.458"
##	"-4.71"	"5"	"30.49"	"5.411"
##	"-4.718"	"28"	"63.72"	"7.571"
##	"-4.719"	"21"	"49.86"	"6.115"
##	"-4.724"	"1"	"19.94"	"4.01"
##	"-4.731"	"15"	"42.57"	"5.828"
##	"-4.735"	"3"	"28.98"	"5.486"
##	"-4.737"	"112"	"167.74"	"11.767"
##	"-4.739"	"60"	"108.56"	"10.248"
##	"-4.74"	"7"	"32.99"	"5.484"
##	"-4.744"	"10"	"32.57"	"4.757"
##	"-4.745"	"1549"	"1731.95"	"38.553"
##	"-4.746"	"52"	"93.94"	"8.836"
##	"-4.753"	"5"	"29.64"	"5.185"
##	"-4.753"	"19"	"48.39"	"6.184"
##	"-4.754"	"14"	"41.38"	"5.759"
##	"-4.758"	"53"	"97.78"	"9.412"
##	"-4.761"	"67"	"113.28"	"9.721"

##	"-4.769"	"15"	"47.23"	"6.758"
##	"-4.771"	"20"	"54.27"	"7.183"
##	"-4.774"	"31"	"63.49"	"6.805"
##	"-4.777"	"7"	"36.83"	"6.244"
##	"-4.778"	"1"	"25.73"	"5.175"
##	"-4.784"	"106"	"159.73"	"11.23"
##	"-4.79"	"1"	"15.08"	"2.939"
##	"-4.794"	"0"	"20.76"	"4.33"
##	"-4.8"	"295"	"380.8"	"17.875"
##	"-4.807"	"47"	"88.38"	"8.609"
##	"-4.809"	"8"	"31.65"	"4.918"
##	"-4.812"	"1"	"20.63"	"4.079"
##	"-4.821"	"10"	"35.3"	"5.248"
##	"-4.823"	"1"	"29.95"	"6.002"
##	"-4.823"	"17"	"45.06"	"5.819"
##	"-4.827"	"385"	"510.82"	"26.065"
##	"-4.832"	"6"	"29.74"	"4.913"
##	"-4.832"	"3"	"23.42"	"4.226"
##	"-4.84"	"27"	"69.28"	"8.735"
##	"-4.846"	"11"	"40.73"	"6.135"
##	"-4.846"	"2"	"20.15"	"3.745"
##	"-4.846"	"4"	"28.81"	"5.12"
##	"-4.847"	"49"	"95.82"	"9.66"
##	"-4.851"	"11"	"38.63"	"5.695"
##	"-4.857"	"63"	"121.06"	"11.954"
##	"-4.867"	"61"	"116.45"	"11.392"
##	"-4.876"	"160"	"228.62"	"14.074"
##	"-4.877"	"22"	"63.14"	"8.435"
##	"-4.877"	"34"	"69.97"	"7.375"
##	"-4.878"	"20"	"55"	"7.175"
##	"-4.88"	"122"	"187.25"	"13.371"
##	"-4.881"	"95"	"148.48"	"10.957"
##	"-4.886"	"5"	"30.95"	"5.311"
##	"-4.902"	"20"	"46.95"	"5.498"
##	"-4.902"	"4"	"28.05"	"4.906"
##	"-4.907"	"8"	"38.8"	"6.276"
##	"-4.907"	"6"	"28.23"	"4.53"
##	"-4.928"	"2"	"28"	"5.276"
##	"-4.931"	"1"	"22.99"	"4.46"
##	"-4.932"	"6"	"33.48"	"5.571"
##	"-4.934"	"167"	"239.74"	"14.741"
##	"-4.935"	"140"	"212.3"	"14.65"
##	"-4.936"	"42"	"85.24"	"8.76"
##	"-4.937"	"0"	"27.41"	"5.552"
##	"-4.938"	"14"	"43.01"	"5.875"
##	"-4.947"	"18"	"52.98"	"7.071"
##	"-4.952"	"3"	"21.56"	"3.748"
##	"-4.953"	"4"	"33.07"	"5.869"
##	"-4.961"	"13"	"43.85"	"6.219"
##	"-4.974"	"68"	"121.79"	"10.815"
##	"-4.974"	"113"	"175.76"	"12.616"
##	"-4.974"	"1"	"22.52"	"4.326"
##	"-4.98"	"112"	"183.01"	"14.26"
##	"-4.982"	"11"	"40.56"	"5.933"

##	"-4.983"	"25"	"57.82"	"6.586"
##	"-4.984"	"4"	"24.98"	"4.209"
##	"-4.985"	"24"	"65.96"	"8.417"
##	"-4.988"	"44"	"88.91"	"9.003"
##	"-4.996"	"4"	"25.95"	"4.393"
##	"-4.996"	"6"	"29.02"	"4.608"
##	"-5.005"	"3"	"27.13"	"4.821"
##	"-5.006"	"6"	"29.76"	"4.746"
##	"-5.007"	"7"	"38.81"	"6.353"
##	"-5.01"	"3"	"23.78"	"4.148"
##	"-5.015"	"8"	"33.83"	"5.15"
##	"-5.016"	"4"	"28.97"	"4.978"
##	"-5.016"	"12"	"38.82"	"5.347"
##	"-5.024"	"76"	"128.99"	"10.548"
##	"-5.025"	"192"	"267.47"	"15.018"
##	"-5.026"	"27"	"68.63"	"8.284"
##	"-5.027"	"4"	"30.46"	"5.264"
##	"-5.041"	"17"	"56.59"	"7.854"
##	"-5.05"	"51"	"106.1"	"10.911"
##	"-5.05"	"8"	"31.58"	"4.669"
##	"-5.061"	"18"	"50.11"	"6.345"
##	"-5.063"	"513"	"629.78"	"23.066"
##	"-5.064"	"16"	"54.94"	"7.689"
##	"-5.066"	"73"	"124.47"	"10.16"
##	"-5.082"	"98"	"168.46"	"13.865"
##	"-5.083"	"27"	"67.31"	"7.93"
##	"-5.086"	"23"	"54.83"	"6.259"
##	"-5.087"	"13"	"46.41"	"6.568"
##	"-5.09"	"0"	"26.88"	"5.281"
##	"-5.092"	"540"	"654.35"	"22.458"
##	"-5.095"	"15"	"44.05"	"5.702"
##	"-5.097"	"29"	"78.57"	"9.725"
##	"-5.1"	"0"	"24.21"	"4.747"
##	"-5.104"	"2"	"33.56"	"6.183"
##	"-5.108"	"3"	"25.67"	"4.438"
##	"-5.112"	"1"	"22.56"	"4.217"
##	"-5.113"	"78"	"140.29"	"12.183"
##	"-5.118"	"18"	"50.76"	"6.401"
##	"-5.126"	"17"	"48.35"	"6.116"
##	"-5.129"	"406"	"506.26"	"19.548"
##	"-5.133"	"12"	"47.12"	"6.842"
##	"-5.134"	"12"	"44.29"	"6.29"
##	"-5.138"	"12"	"48.68"	"7.139"
##	"-5.141"	"2"	"29.91"	"5.429"
##	"-5.143"	"32"	"78.52"	"9.046"
##	"-5.148"	"30"	"70.56"	"7.878"
##	"-5.153"	"15"	"48.81"	"6.561"
##	"-5.155"	"3"	"26.85"	"4.626"
##	"-5.158"	"1"	"21.67"	"4.008"
##	"-5.178"	"52"	"98.51"	"8.982"
##	"-5.195"	"6"	"34.12"	"5.413"
##	"-5.195"	"12"	"42.1"	"5.794"
##	"-5.195"	"29"	"69.59"	"7.814"
##	"-5.2"	"216"	"296.96"	"15.569"

##	"-5.2"	"64"	"118.83"	"10.544"
##	"-5.203"	"13"	"44.45"	"6.044"
##	"-5.21"	"35"	"78.12"	"8.276"
##	"-5.212"	"94"	"153.25"	"11.367"
##	"-5.221"	"8"	"41.23"	"6.364"
##	"-5.221"	"3"	"26.31"	"4.465"
##	"-5.224"	"210"	"288.56"	"15.04"
##	"-5.229"	"67"	"121.05"	"10.337"
##	"-5.23"	"0"	"23.67"	"4.526"
##	"-5.232"	"23"	"64.7"	"7.97"
##	"-5.242"	"43"	"84.69"	"7.953"
##	"-5.246"	"29"	"75.23"	"8.812"
##	"-5.257"	"438"	"563.11"	"23.799"
##	"-5.258"	"7"	"39.17"	"6.118"
##	"-5.263"	"70"	"128.34"	"11.085"
##	"-5.264"	"98"	"160.38"	"11.85"
##	"-5.269"	"25"	"67.72"	"8.108"
##	"-5.27"	"7"	"32.28"	"4.797"
##	"-5.274"	"209"	"287.45"	"14.875"
##	"-5.285"	"864"	"1023.99"	"30.272"
##	"-5.299"	"27"	"70.21"	"8.154"
##	"-5.31"	"93"	"156.34"	"11.928"
##	"-5.31"	"38"	"77.34"	"7.409"
##	"-5.311"	"30"	"70.34"	"7.596"
##	"-5.321"	"18"	"55.71"	"7.087"
##	"-5.339"	"154"	"247.88"	"17.583"
##	"-5.339"	"224"	"312.08"	"16.499"
##	"-5.339"	"3"	"34.43"	"5.887"
##	"-5.344"	"1169"	"1378.31"	"39.166"
##	"-5.349"	"19"	"58.39"	"7.363"
##	"-5.357"	"81"	"139.02"	"10.83"
##	"-5.365"	"7"	"37.14"	"5.617"
##	"-5.365"	"14"	"49.1"	"6.542"
##	"-5.366"	"37"	"85.12"	"8.968"
##	"-5.375"	"1"	"27.16"	"4.867"
##	"-5.378"	"47"	"99.7"	"9.8"
##	"-5.384"	"5"	"38.08"	"6.144"
##	"-5.385"	"2"	"28.59"	"4.938"
##	"-5.386"	"3"	"31.36"	"5.266"
##	"-5.386"	"10"	"41.6"	"5.867"
##	"-5.388"	"0"	"26.03"	"4.831"
##	"-5.39"	"4"	"37.01"	"6.124"
##	"-5.39"	"19"	"56.86"	"7.024"
##	"-5.393"	"0"	"28.13"	"5.216"
##	"-5.393"	"1"	"24.59"	"4.374"
##	"-5.398"	"152"	"225.85"	"13.68"
##	"-5.399"	"6"	"39.11"	"6.133"
##	"-5.399"	"9"	"47.15"	"7.066"
##	"-5.403"	"60"	"116.68"	"10.491"
##	"-5.404"	"54"	"117.21"	"11.698"
##	"-5.409"	"7"	"41.94"	"6.46"
##	"-5.409"	"15"	"58.97"	"8.128"
##	"-5.461"	"136"	"207.85"	"13.156"
##	"-5.462"	"44"	"96.3"	"9.575"

##	"-5.462"	"27"	"70.78"	"8.016"
##	"-5.463"	"15"	"45.01"	"5.493"
##	"-5.468"	"45"	"92.99"	"8.776"
##	"-5.469"	"130"	"210.67"	"14.751"
##	"-5.474"	"67"	"117"	"9.134"
##	"-5.476"	"2"	"30.95"	"5.286"
##	"-5.485"	"29"	"78.06"	"8.944"
##	"-5.492"	"2"	"33.63"	"5.759"
##	"-5.494"	"14"	"55.19"	"7.498"
##	"-5.505"	"44"	"100.32"	"10.231"
##	"-5.522"	"11"	"44.38"	"6.045"
##	"-5.528"	"10"	"39.67"	"5.367"
##	"-5.556"	"80"	"133.08"	"9.553"
##	"-5.559"	"1"	"34.57"	"6.039"
##	"-5.568"	"14"	"51.87"	"6.801"
##	"-5.569"	"18"	"57.04"	"7.011"
##	"-5.569"	"26"	"65.8"	"7.146"
##	"-5.591"	"196"	"282.75"	"15.515"
##	"-5.592"	"39"	"83.53"	"7.963"
##	"-5.597"	"189"	"274.12"	"15.208"
##	"-5.605"	"23"	"73.93"	"9.087"
##	"-5.605"	"50"	"98.59"	"8.669"
##	"-5.609"	"56"	"123.02"	"11.949"
##	"-5.614"	"9"	"49.01"	"7.127"
##	"-5.623"	"64"	"134.67"	"12.567"
##	"-5.626"	"67"	"132.34"	"11.614"
##	"-5.63"	"15"	"58.91"	"7.799"
##	"-5.645"	"7"	"33.47"	"4.689"
##	"-5.649"	"0"	"23.93"	"4.236"
##	"-5.652"	"11"	"58.69"	"8.438"
##	"-5.654"	"11"	"44.61"	"5.944"
##	"-5.659"	"19"	"56.33"	"6.597"
##	"-5.669"	"11"	"44.15"	"5.847"
##	"-5.686"	"22"	"64.83"	"7.533"
##	"-5.702"	"4"	"35.13"	"5.46"
##	"-5.702"	"10"	"46.78"	"6.45"
##	"-5.724"	"12"	"55.23"	"7.553"
##	"-5.732"	"18"	"61.63"	"7.611"
##	"-5.732"	"8"	"44.97"	"6.45"
##	"-5.745"	"29"	"84.62"	"9.682"
##	"-5.745"	"21"	"63.97"	"7.48"
##	"-5.748"	"20"	"50.53"	"5.311"
##	"-5.757"	"21"	"68.99"	"8.336"
##	"-5.763"	"76"	"132.56"	"9.814"
##	"-5.774"	"14"	"57.49"	"7.532"
##	"-5.778"	"43"	"96.23"	"9.212"
##	"-5.79"	"27"	"82.8"	"9.637"
##	"-5.795"	"86"	"160.01"	"12.772"
##	"-5.812"	"569"	"717.97"	"25.632"
##	"-5.815"	"10"	"44.36"	"5.909"
##	"-5.817"	"66"	"135.31"	"11.914"
##	"-5.824"	"60"	"129.92"	"12.006"
##	"-5.837"	"33"	"84.5"	"8.823"
##	"-5.84"	"550"	"733.18"	"31.367"

##	"-5.842"	"15"	"59.63"	"7.639"
##	"-5.843"	"6"	"41.19"	"6.023"
##	"-5.844"	"64"	"130.49"	"11.378"
##	"-5.845"	"0"	"28.52"	"4.879"
##	"-5.861"	"0"	"24"	"4.095"
##	"-5.879"	"8"	"45.55"	"6.387"
##	"-5.884"	"4"	"39.18"	"5.979"
##	"-5.89"	"216"	"326.99"	"18.845"
##	"-5.898"	"21"	"67.72"	"7.921"
##	"-5.899"	"1"	"38.66"	"6.384"
##	"-5.904"	"51"	"110.7"	"10.111"
##	"-5.905"	"4"	"38.02"	"5.761"
##	"-5.907"	"120"	"198.16"	"13.233"
##	"-5.917"	"4"	"38.35"	"5.806"
##	"-5.923"	"31"	"85.12"	"9.137"
##	"-5.957"	"4"	"31.22"	"4.57"
##	"-5.958"	"79"	"139.04"	"10.076"
##	"-5.963"	"36"	"85.74"	"8.342"
##	"-5.967"	"4"	"37.47"	"5.609"
##	"-5.97"	"661"	"858.19"	"33.03"
##	"-5.983"	"30"	"88.27"	"9.739"
##	"-6.02"	"225"	"338.7"	"18.886"
##	"-6.022"	"12"	"52.12"	"6.663"
##	"-6.043"	"26"	"81.22"	"9.138"
##	"-6.05"	"2"	"35.87"	"5.599"
##	"-6.069"	"9"	"41.17"	"5.301"
##	"-6.076"	"19"	"60.32"	"6.8"
##	"-6.086"	"19"	"61.94"	"7.055"
##	"-6.086"	"2"	"44.22"	"6.938"
##	"-6.095"	"17"	"62.48"	"7.462"
##	"-6.102"	"5"	"42.02"	"6.067"
##	"-6.106"	"21"	"66.18"	"7.4"
##	"-6.108"	"283"	"398.34"	"18.884"
##	"-6.115"	"26"	"84.79"	"9.614"
##	"-6.116"	"59"	"121.5"	"10.218"
##	"-6.121"	"89"	"162.91"	"12.076"
##	"-6.123"	"24"	"81.19"	"9.341"
##	"-6.128"	"156"	"259.46"	"16.882"
##	"-6.129"	"26"	"70.57"	"7.271"
##	"-6.14"	"8"	"51.29"	"7.05"
##	"-6.143"	"85"	"159.11"	"12.064"
##	"-6.149"	"56"	"134.69"	"12.797"
##	"-6.15"	"202"	"310.6"	"17.66"
##	"-6.156"	"39"	"102.64"	"10.338"
##	"-6.166"	"506"	"663.55"	"25.551"
##	"-6.179"	"23"	"79.3"	"9.112"
##	"-6.184"	"11"	"44.13"	"5.357"
##	"-6.186"	"25"	"72.37"	"7.658"
##	"-6.201"	"19"	"63.69"	"7.206"
##	"-6.21"	"33"	"88.07"	"8.867"
##	"-6.215"	"19"	"64.61"	"7.339"
##	"-6.219"	"18"	"57.68"	"6.38"
##	"-6.24"	"11"	"55.51"	"7.133"
##	"-6.245"	"24"	"80.02"	"8.97"

##	"-6.266"	"75"	"144.2"	"11.044"
##	"-6.27"	"2"	"42.45"	"6.452"
##	"-6.291"	"74"	"153"	"12.558"
##	"-6.293"	"62"	"144.12"	"13.049"
##	"-6.295"	"45"	"109.53"	"10.251"
##	"-6.321"	"38"	"112.24"	"11.745"
##	"-6.338"	"88"	"157.81"	"11.015"
##	"-6.355"	"53"	"127.14"	"11.667"
##	"-6.363"	"10"	"49.09"	"6.143"
##	"-6.367"	"158"	"259.13"	"15.884"
##	"-6.38"	"63"	"134.35"	"11.184"
##	"-6.382"	"1"	"26.36"	"3.973"
##	"-6.405"	"15"	"63.63"	"7.593"
##	"-6.407"	"998"	"1217.53"	"34.265"
##	"-6.408"	"30"	"88.58"	"9.141"
##	"-6.418"	"44"	"104.27"	"9.391"
##	"-6.419"	"354"	"487.25"	"20.759"
##	"-6.428"	"51"	"112.4"	"9.552"
##	"-6.432"	"563"	"716.37"	"23.843"
##	"-6.437"	"28"	"87.22"	"9.2"
##	"-6.456"	"321"	"442.51"	"18.821"
##	"-6.499"	"12"	"53.53"	"6.39"
##	"-6.5"	"68"	"139.11"	"10.94"
##	"-6.502"	"269"	"376.3"	"16.504"
##	"-6.514"	"99"	"178.52"	"12.208"
##	"-6.531"	"387"	"528.21"	"21.621"
##	"-6.562"	"22"	"75.67"	"8.179"
##	"-6.575"	"37"	"94.19"	"8.698"
##	"-6.58"	"160"	"251.01"	"13.83"
##	"-6.594"	"33"	"93.28"	"9.142"
##	"-6.614"	"4"	"38.47"	"5.212"
##	"-6.62"	"2"	"39.3"	"5.634"
##	"-6.623"	"57"	"126.55"	"10.502"
##	"-6.633"	"49"	"103.6"	"8.231"
##	"-6.634"	"6"	"52"	"6.934"
##	"-6.634"	"68"	"132.45"	"9.716"
##	"-6.692"	"25"	"94.12"	"10.329"
##	"-6.704"	"47"	"109.81"	"9.369"
##	"-6.721"	"155"	"257.16"	"15.201"
##	"-6.743"	"15"	"60.32"	"6.721"
##	"-6.765"	"8"	"56.1"	"7.11"
##	"-6.775"	"26"	"91.57"	"9.678"
##	"-6.784"	"26"	"81.82"	"8.228"
##	"-6.79"	"66"	"154.16"	"12.984"
##	"-6.859"	"626"	"785.1"	"23.195"
##	"-6.889"	"3"	"52.49"	"7.184"
##	"-6.895"	"34"	"90.67"	"8.219"
##	"-6.908"	"176"	"291.46"	"16.715"
##	"-6.944"	"560"	"746.77"	"26.897"
##	"-6.991"	"6"	"43.79"	"5.405"
##	"-7.104"	"96"	"196.26"	"14.113"
##	"-7.126"	"1"	"51.22"	"7.048"
##	"-7.138"	"10"	"52.63"	"5.972"
##	"-7.171"	"88"	"173.19"	"11.88"

##	"-7.207"	"22"	"80.24"	"8.081"
##	"-7.228"	"7"	"49.38"	"5.863"
##	"-7.23"	"11"	"56.15"	"6.245"
##	"-7.241"	"102"	"189.18"	"12.039"
##	"-7.244"	"13"	"69.66"	"7.822"
##	"-7.244"	"58"	"142.45"	"11.658"
##	"-7.272"	"176"	"290.67"	"15.769"
##	"-7.284"	"55"	"122.07"	"9.208"
##	"-7.321"	"45"	"130.57"	"11.689"
##	"-7.323"	"17"	"76.09"	"8.069"
##	"-7.325"	"19"	"74.53"	"7.58"
##	"-7.327"	"35"	"102.74"	"9.245"
##	"-7.334"	"91"	"203.73"	"15.371"
##	"-7.334"	"69"	"141.6"	"9.899"
##	"-7.407"	"6"	"58.82"	"7.131"
##	"-7.413"	"44"	"127.24"	"11.23"
##	"-7.427"	"4"	"67.81"	"8.591"
##	"-7.435"	"1"	"46.52"	"6.122"
##	"-7.521"	"139"	"241.47"	"13.624"
##	"-7.522"	"48"	"136.74"	"11.797"
##	"-7.531"	"6"	"55.49"	"6.571"
##	"-7.565"	"693"	"977.94"	"37.667"
##	"-7.573"	"16"	"83.33"	"8.891"
##	"-7.583"	"37"	"109.79"	"9.599"
##	"-7.755"	"39"	"106.64"	"8.722"
##	"-7.786"	"4"	"56.66"	"6.763"
##	"-7.826"	"302"	"460.75"	"20.285"
##	"-7.827"	"9"	"74.84"	"8.412"
##	"-7.841"	"6"	"80.73"	"9.53"
##	"-7.851"	"68"	"158.16"	"11.484"
##	"-7.876"	"251"	"399.91"	"18.907"
##	"-7.936"	"31"	"104.68"	"9.284"
##	"-7.986"	"20"	"95.57"	"9.463"
##	"-8.022"	"16"	"77.72"	"7.694"
##	"-8.061"	"176"	"320.14"	"17.882"
##	"-8.092"	"50"	"144.85"	"11.722"
##	"-8.102"	"828"	"1108.54"	"34.627"
##	"-8.105"	"104"	"241.8"	"17.002"
##	"-8.111"	"3"	"53.95"	"6.282"
##	"-8.134"	"267"	"442.11"	"21.528"
##	"-8.187"	"157"	"303.86"	"17.938"
##	"-8.203"	"34"	"119.98"	"10.481"
##	"-8.206"	"53"	"157.61"	"12.748"
##	"-8.255"	"75"	"183.95"	"13.198"
##	"-8.312"	"67"	"172.68"	"12.714"
##	"-8.348"	"59"	"157.5"	"11.799"
##	"-8.412"	"218"	"379.94"	"19.252"
##	"-8.459"	"0"	"62.26"	"7.36"
##	"-8.467"	"4"	"69.18"	"7.698"
##	"-8.529"	"165"	"321.54"	"18.354"
##	"-8.551"	"17"	"110.63"	"10.95"
##	"-8.568"	"31"	"117.52"	"10.098"
##	"-8.569"	"25"	"115.14"	"10.519"
##	"-8.639"	"63"	"182.45"	"13.827"

##	"-8.857"	"7"	"82.89"	"8.568"
##	"-9.005"	"347"	"569.6"	"24.719"
##	"-9.044"	"38"	"141.1"	"11.4"
##	"-9.068"	"133"	"286.49"	"16.927"
##	"-9.115"	"214"	"368.99"	"17.003"
##	"-9.13"	"52"	"160.57"	"11.891"
##	"-9.138"	"31"	"114.35"	"9.121"
##	"-9.143"	"90"	"224.15"	"14.673"
##	"-9.181"	"41"	"134.2"	"10.151"
##	"-9.221"	"819"	"1182.66"	"39.439"
##	"-9.239"	"169"	"338.54"	"18.351"
##	"-9.351"	"108"	"252.55"	"15.458"
##	"-9.384"	"117"	"259.63"	"15.199"
##	"-9.409"	"247"	"425.05"	"18.923"
##	"-9.576"	"1"	"80.78"	"8.331"
##	"-9.798"	"364"	"597.4"	"23.821"
##	"-9.802"	"204"	"409.34"	"20.948"
##	"-9.877"	"168"	"340.86"	"17.502"
##	"-9.947"	"226"	"429.03"	"20.412"
##	"-10.001"	"796"	"1126.6"	"33.058"
##	"-10.026"	"20"	"111.43"	"9.119"
##	"-10.08"	"440"	"722.83"	"28.059"
##	"-10.106"	"70"	"204.15"	"13.274"
##	"-10.163"	"94"	"232.19"	"13.597"
##	"-10.164"	"235"	"472.51"	"23.367"
##	"-10.197"	"178"	"379.58"	"19.768"
##	"-10.259"	"50"	"203.11"	"14.925"
##	"-10.326"	"60"	"184.57"	"12.063"
##	"-10.582"	"170"	"347.57"	"16.78"
##	"-10.622"	"26"	"155.76"	"12.216"
##	"-10.694"	"1"	"115.27"	"10.685"
##	"-10.723"	"37"	"168.96"	"12.307"
##	"-10.842"	"63"	"184.13"	"11.172"
##	"-10.87"	"322"	"533.69"	"19.475"
##	"-10.924"	"166"	"358.38"	"17.611"
##	"-11.518"	"643"	"984.58"	"29.655"
##	"-11.605"	"63"	"229.02"	"14.305"
##	"-11.62"	"156"	"366.96"	"18.154"
##	"-11.777"	"161"	"398.83"	"20.195"
##	"-11.798"	"81"	"239.49"	"13.433"
##	"-11.836"	"0"	"105.01"	"8.872"
##	"-12.026"	"132"	"382.59"	"20.838"
##	"-12.157"	"35"	"201.1"	"13.663"
##	"-12.311"	"468"	"753.39"	"23.182"
##	"-12.878"	"4"	"179.58"	"13.634"
##	"-13.121"	"248"	"552.84"	"23.233"
##	"-13.217"	"164"	"368.49"	"15.471"
##	"-13.518"	"61"	"310.53"	"18.46"
##	"-13.556"	"51"	"265.51"	"15.824"
##	"-13.589"	"13"	"201.38"	"13.863"
##	"-13.621"	"38"	"195.79"	"11.584"
##	"-13.847"	"233"	"508.05"	"19.864"
##	"-13.898"	"98"	"326.7"	"16.456"
##	"-13.973"	"795"	"1270.48"	"34.028"

```
##          "-14.075" "176" "482.56" "21.781"
##          "-14.127" "980" "1519.79" "38.209"
##          "-14.767" "22" "195.4" "11.742"
##          "-14.796" "140" "476.01" "22.71"
##          "-14.878" "141" "450.18" "20.78"
##          "-15.211" "18" "209.76" "12.607"
##          "-15.284" "476" "882.77" "26.614"
##          "-15.351" "984" "1542.46" "36.381"
##          "-15.528" "291" "710.55" "27.019"
##          "-15.834" "379" "891.67" "32.378"
##          "-16.039" "1553" "2269.06" "44.646"
##          "-16.635" "903" "1506.6" "36.285"
##          "-16.885" "806" "1383.55" "34.204"
##          "-17.713" "203" "623.19" "23.722"
##          "-18.117" "9" "262.02" "13.966"
##          "-18.562" "82" "451.78" "19.922"
##          "-19.363" "1824" "2774.59" "49.093"
##          "-20.09" "604" "1450.03" "42.111"
##          "-32.463" "766" "2003.35" "38.116"
##          "-38.401" "293" "1765.44" "38.344"
##          "-38.666" "1234" "3048.76" "46.934"
```

```
write.table(bp.enriched.terms, file="output/genes.bp.txt", sep="\t", row.names = F, col.names = F, quote=F)
```

```
cc.enriched.terms <- c("GO.ID", "GO.Term", "zscore", "obs", "mean", "std")
for (i in 1:length(cc.enrich.list)) {
  id <- as.character(cc.enrich.list[i])
  term <- Term(GO.ID(id))
  z.gene <- z.cc[i]
  cc.enriched.terms <- rbind(cc.enriched.terms, c(id, term, z.gene, cc.obs[i], cc.mean[i], cc.std[i]))
}
cc.enriched.terms
```

```
##
## cc.enriched.terms "GO.ID"
##          "GO:0005747"
##          "GO:0005743"
##          "GO:0005739"
##          "GO:0005759"
##          "GO:0005751"
##          "GO:0030964"
##          "GO:0005746"
##          "GO:0005750"
##          "GO:0045277"
##          "GO:0031966"
##          "GO:0005758"
##          "GO:0005762"
##          "GO:0097249"
##          "GO:0070469"
##          "GO:0031305"
##          "GO:0043209"
##          "GO:0005763"
##          "GO:0005761"
##          "GO:0031314"
##          "GO:0005744"
```

##	"GO:0016471"
##	"GO:0016469"
##	"GO:0042645"
##	"GO:0030678"
##	"GO:0005753"
##	"GO:0045272"
##	"GO:0033179"
##	"GO:0000276"
##	"GO:1904813"
##	"GO:0022624"
##	"GO:0005749"
##	"GO:0034774"
##	"GO:0045254"
##	"GO:0042721"
##	"GO:0033180"
##	"GO:0000221"
##	"GO:0045252"
##	"GO:0070062"
##	"GO:0016021"
##	"GO:0005774"
##	"GO:0035577"
##	"GO:0046930"
##	"GO:0001405"
##	"GO:0045263"
##	"GO:0099512"
##	"GO:0016234"
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##	"GO:0042719"
##	"GO:0005838"
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##	"GO:0000408"
##	"GO:0045244"
##	"GO:0061617"
##	"GO:0005778"
##	"GO:0043159"
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##	"GO:0005967"

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##	"G0:0032419"
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##	"G0:0031307"
##	"G0:0001401"
##	"G0:0000015"
##	"G0:0005782"
##	"G0:0005902"
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##	"G0:0045273"
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##	"G0:0099523"
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##	"G0:0033017"
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##	"G0:0072687"
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##	"G0:0000421"
##	"G0:0097228"
##	"G0:0030175"
##	"G0:0098554"
##	"G0:0019907"
##	"G0:0032301"
##	"G0:0000275"
##	"G0:0097433"
##	"G0:0031306"
##	"G0:0005851"
##	"G0:0014802"
##	"G0:0097227"
##	"G0:0044306"
##	"G0:0044300"
##	"G0:0043195"
##	"G0:0005955"
##	"G0:0015630"
##	"G0:0030137"
##	"G0:0097413"
##	"G0:0032300"
##	"G0:0016324"
##	"G0:0097145"
##	"G0:0030130"
##	"G0:0017087"
##	"G0:0061825"
##	"G0:0005784"
##	"G0:1902937"
##	"G0:1990425"
##	"G0:0009328"
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##	"G0:0000243"
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##	"G0:0071564"
##	"G0:0005815"
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##	"G0:0000123"
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##	"G0:0016592"
##	"G0:0008024"
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##          "mitochondrial respiratory chain complex I"
##          "mitochondrial inner membrane"
##          "mitochondrion"
##          "mitochondrial matrix"
##          "mitochondrial respiratory chain complex IV"
##          "NADH dehydrogenase complex"
##          "mitochondrial respiratory chain"
##          "mitochondrial respiratory chain complex III"
##          "respiratory chain complex IV"
##          "mitochondrial membrane"
##          "mitochondrial intermembrane space"
##          "mitochondrial large ribosomal subunit"
##          "mitochondrial respiratory chain supercomplex"
##          "respiratory chain"
##          "integral component of mitochondrial inner membrane"
##          "myelin sheath"
##          "mitochondrial small ribosomal subunit"
##          "mitochondrial ribosome"
##          "extrinsic component of mitochondrial inner membrane"
##          "TIM23 mitochondrial import inner membrane translocase complex"
##          "vacuolar proton-transporting V-type ATPase complex"
##          "proton-transporting two-sector ATPase complex"
##          "mitochondrial nucleoid"
##          "mitochondrial ribonuclease P complex"
##          "mitochondrial proton-transporting ATP synthase complex"
##          "plasma membrane respiratory chain complex I"
##          "proton-transporting V-type ATPase, VO domain"
##          "mitochondrial proton-transporting ATP synthase complex, coupling factor F(o)"
##          "ficolin-1-rich granule lumen"

```

```

##      "proteasome accessory complex"
##      "mitochondrial respiratory chain complex II, succinate dehydrogenase complex (ubiquinol oxidase)"
##      "secretory granule lumen"
##      "pyruvate dehydrogenase complex"
##      "TIM22 mitochondrial import inner membrane insertion complex"
##      "proton-transporting V-type ATPase, V1 domain"
##      "vacuolar proton-transporting V-type ATPase, V1 domain"
##      "oxoglutarate dehydrogenase complex"
##      "extracellular exosome"
##      "integral component of membrane"
##      "vacuolar membrane"
##      "azurophil granule membrane"
##      "pore complex"
##      "PAM complex, Tim23 associated import motor"
##      "proton-transporting ATP synthase complex, coupling factor F(o)"
##      "supramolecular fiber"
##      "inclusion body"
##      "proteasome complex"
##      "mitochondrial intermembrane space protein transporter complex"
##      "proteasome regulatory particle"
##      "proton-transporting two-sector ATPase complex, catalytic domain"
##      "plasma membrane proton-transporting V-type ATPase complex"
##      "endopeptidase Clp complex"
##      "mitochondrial outer membrane translocase complex"
##      "proteasome regulatory particle, base subcomplex"
##      "endoplasmic reticulum tubular network membrane"
##      "glycine cleavage complex"
##      "proteasome regulatory particle, lid subcomplex"
##      "lysosomal membrane"
##      "MMXD complex"
##      "melanosome"
##      "anchored component of synaptic vesicle membrane"
##      "mitochondrial outer membrane"
##      "lipid droplet"
##      "EKC/KEOPS complex"
##      "succinate-CoA ligase complex (GDP-forming)"
##      "MICOS complex"
##      "peroxisomal membrane"
##      "acrosomal matrix"
##      "nuclear outer membrane"
##      "sperm head"
##      "I band"
##      "peroxisome"
##      "phagocytic vesicle membrane"
##      "mitochondrial pyruvate dehydrogenase complex"
##      "host cell mitochondrial intermembrane space"
##      "coated vesicle"
##      "cytosolic proteasome complex"
##      "zona pellucida receptor complex"
##      "extrinsic component of lysosome membrane"
##      "chaperonin-containing T-complex"
##      "vacuolar proton-transporting V-type ATPase, V0 domain"
##      "integral component of mitochondrial outer membrane"
##      "mitochondrial sorting and assembly machinery complex"

```

```

##      "phosphopyruvate hydratase complex"
##      "peroxisomal matrix"
##      "microvillus"
##      "mitochondrial proton-transporting ATP synthase, stator stalk"
##      "respiratory chain complex II"
##      "platelet alpha granule membrane"
##      "cell body"
##      "intrinsic component of mitochondrial inner membrane"
##      "azurophil granule lumen"
##      "insulin-responsive compartment"
##      "sperm mitochondrial sheath"
##      "mitochondrial permeability transition pore complex"
##      "blood microparticle"
##      "glycerol-3-phosphate dehydrogenase complex"
##      "cytochrome complex"
##      "platelet dense tubular network membrane"
##      "presynaptic cytosol"
##      "6-phosphofructokinase complex"
##      "proton-transporting V-type ATPase complex"
##      "multivesicular body"
##      "integral component of mitochondrial membrane"
##      "mitochondrial alpha-ketoglutarate dehydrogenase complex"
##      "dolichol-phosphate-mannose synthase complex"
##      "microtubule"
##      "late endosome"
##      "spot adherens junction"
##      "nuclear proteasome complex"
##      "L-cysteine desulfurase complex"
##      "plasma membrane succinate dehydrogenase complex"
##      "tertiary granule lumen"
##      "lysosome"
##      "proteasome storage granule"
##      "eukaryotic translation elongation factor 1 complex"
##      "early endosome"
##      "M band"
##      "tricarboxylic acid cycle enzyme complex"
##      "cytoplasmic side of lysosomal membrane"
##      "methionine adenosyltransferase complex"
##      "sarcoplasmic reticulum membrane"
##      "mitochondrial envelope"
##      "endoplasmic reticulum"
##      "T-tubule"
##      "meiotic spindle"
##      "cortical actin cytoskeleton"
##      "mitochondrial oxoglutarate dehydrogenase complex"
##      "Mitochondria-associated ER Membrane"
##      "protein phosphatase type 2A complex"
##      "actomyosin, actin portion"
##      "clathrin complex"
##      "MutSbeta complex"
##      "lipopolysaccharide receptor complex"
##      "extrinsic component of synaptic vesicle membrane"
##      "anchored component of the cytoplasmic side of the plasma membrane"
##      "mitochondrial endopeptidase Clp complex"

```


"melanosome membrane"
 ## "nucleosome"
 ## "CatSper complex"
 ## "nascent polypeptide-associated complex"
 ## "cytoplasmic side of membrane"
 ## "extrinsic component of organelle membrane"
 ## "endomembrane system"
 ## "autophagosome"
 ## "cAMP-dependent protein kinase complex"
 ## "ER membrane protein complex"
 ## "sarcoplasmic reticulum"
 ## "autolysosome"
 ## "smooth muscle contractile fiber"
 ## "autophagosome membrane"
 ## "sperm principal piece"
 ## "filopodium"
 ## "cytoplasmic side of endoplasmic reticulum membrane"
 ## "cyclin-dependent protein kinase activating kinase holoenzyme complex"
 ## "MutSalpha complex"
 ## "mitochondrial proton-transporting ATP synthase complex, catalytic core F(1)"
 ## "dense body"
 ## "intrinsic component of mitochondrial outer membrane"
 ## "eukaryotic translation initiation factor 2B complex"
 ## "terminal cisterna"
 ## "sperm annulus"
 ## "neuron projection terminus"
 ## "cerebellar mossy fiber"
 ## "terminal bouton"
 ## "calcineurin complex"
 ## "microtubule cytoskeleton"
 ## "COPI-coated vesicle"
 ## "Lewy body"
 ## "mismatch repair complex"
 ## "apical plasma membrane"
 ## "BAK complex"
 ## "clathrin coat of trans-Golgi network vesicle"
 ## "mitochondrial processing peptidase complex"
 ## "podosome core"
 ## "Sec61 translocon complex"
 ## "inward rectifier potassium channel complex"
 ## "ryanodine receptor complex"
 ## "phenylalanine-tRNA ligase complex"
 ## "lumenal side of lysosomal membrane"
 ## "cortical cytoskeleton"
 ## "endosome membrane"
 ## "postsynaptic cytosol"
 ## "internode region of axon"
 ## "dendrite cytoplasm"
 ## "nucleotide-activated protein kinase complex"
 ## "integrin alpha4-beta7 complex"
 ## "3-methylcrotonyl-CoA carboxylase complex, mitochondrial"
 ## "methylcrotonoyl-CoA carboxylase complex"
 ## "angiogenin-PRI complex"
 ## "sorting endosome"

```

##      "cytoplasmic side of early endosome membrane"
##      "eukaryotic translation initiation factor 4F complex"
##      "alpha9-beta1 integrin-vascular cell adhesion molecule-1 complex"
##      "aminoacyl-tRNA synthetase multienzyme complex"
##      "trans-Golgi network transport vesicle"
##      "amphisome"
##      "male germ cell nucleus"
##      "CIA complex"
##      "mitochondrial crista junction"
##      "endoplasmic reticulum chaperone complex"
##      "aggresome"
##      "outer mitochondrial membrane protein complex"
##      "connexin complex"
##      "gamma-secretase complex"
##      "VCP-NSFL1C complex"
##      "actin filament bundle"
##      "COP9 signalosome"
##      "neuron spine"
##      "ionotropic glutamate receptor complex"
##      "motile cilium"
##      "dense core granule"
##      "sarcomere"
##      "synaptic vesicle"
##      "apoptosome"
##      "pseudopodium"
##      "COPI-coated vesicle membrane"
##      "postsynaptic early endosome"
##      "isoamylase complex"
##      "RISC complex"
##      "Atg12-Atg5-Atg16 complex"
##      "concave side of sperm head"
##      "integral component of endoplasmic reticulum membrane"
##      "potassium channel complex"
##      "sodium:potassium-exchanging ATPase complex"
##      "cytosol"
##      "postsynaptic actin cytoskeleton"
##      "Golgi stack"
##      "pyruvate kinase complex"
##      "platelet alpha granule lumen"
##      "cytoplasmic side of mitochondrial outer membrane"
##      "caveola neck"
##      "rough endoplasmic reticulum membrane"
##      "presynapse"
##      "ATPase complex"
##      "DNA-dependent protein kinase complex"
##      "tubulin complex"
##      "procollagen-proline 4-dioxygenase complex"
##      "oligosaccharyltransferase complex"
##      "ooplasm"
##      "sperm head plasma membrane"
##      "3M complex"
##      "voltage-gated potassium channel complex"
##      "septin ring"
##      "septin complex"

```

```

##      "septin filament array"
##      "transcription factor AP-1 complex"
##      "acrosomal vesicle"
##      "GMP reductase complex"
##      "Cul7-RING ubiquitin ligase complex"
##      "R2TP complex"
##      "mitochondrial degradosome"
##      "endoplasmic reticulum exit site"
##      "F-actin capping protein complex"
##      "smooth endoplasmic reticulum"
##      "chromatoid body"
##      "BRISC complex"
##      "aryl hydrocarbon receptor complex"
##      "juxtaparanode region of axon"
##      "ribose phosphate diphosphokinase complex"
##      "nuclear periphery"
##      "Bcl-2 family protein complex"
##      "clathrin-coated vesicle"
##      "ribonucleoside-diphosphate reductase complex"
##      "GAIT complex"
##      "Golgi-associated vesicle"
##      "cyclin A1-CDK2 complex"
##      "meiotic spindle pole"
##      "endoplasmic reticulum membrane"
##      "vesicle"
##      "multivesicular body, internal vesicle"
##      "inward rectifying potassium channel"
##      "m-AAA complex"
##      "kinocilium"
##      "MLL1 complex"
##      "GET complex"
##      "sperm connecting piece"
##      "glucosidase II complex"
##      "GID complex"
##      "calyx of Held"
##      "vesicle membrane"
##      "axoneme"
##      "phagophore assembly site membrane"
##      "ciliary base"
##      "clathrin-sculpted gamma-aminobutyric acid transport vesicle membrane"
##      "BAT3 complex"
##      "dystrophin-associated glycoprotein complex"
##      "chaperone complex"
##      "RNA nuclear export complex"
##      "actin cap"
##      "uniplex complex"
##      "COPI vesicle coat"
##      "postsynaptic density membrane"
##      "invadopodium"
##      "NuA4 histone acetyltransferase complex"
##      "synaptic vesicle membrane"
##      "clathrin coat"
##      "AMPA glutamate receptor complex"
##      "GATOR1 complex"

```

```

## "postsynaptic recycling endosome"
## "hemoglobin complex"
## "katanin complex"
## "RAVE complex"
## "endoplasmic reticulum quality control compartment"
## "Derlin-1 retrotranslocation complex"
## "synaptic membrane"
## "mitotic spindle microtubule"
## "endoplasmic reticulum tubular network"
## "Sec62/Sec63 complex"
## "multivesicular body, internal vesicle lumen"
## "VCP-NPL4-UFD1 AAA ATPase complex"
## "sperm fibrous sheath"
## "BAX complex"
## "glycogen granule"
## "I-kappaB/NF-kappaB complex"
## "NELF complex"
## "mRNA cap binding complex"
## "IkappaB kinase complex"
## "calcium channel complex"
## "membrane microdomain"
## "lysosomal matrix"
## "centralspindlin complex"
## "serine-type endopeptidase complex"
## "integral component of autophagosome membrane"
## "nucleotide-excision repair factor 1 complex"
## "preribosome, small subunit precursor"
## "serine/threonine protein kinase complex"
## "actin cytoskeleton"
## "Swr1 complex"
## "growth hormone receptor complex"
## "ciliary pocket membrane"
## "cytoplasm"
## "RES complex"
## "brush border membrane"
## "mitochondrion-derived vesicle"
## "cell periphery"
## "Shu complex"
## "Golgi cis cisterna membrane"
## "contractile fiber"
## "axonemal dynein complex"
## "extrinsic component of plasma membrane"
## "membrane raft"
## "terminal web"
## "sarcoglycan complex"
## "endosome to plasma membrane transport vesicle"
## "fascia adherens"
## "platelet dense granule membrane"
## "membrane"
## "cyclin E2-CDK2 complex"
## "phosphatidylinositol 3-kinase complex, class IB"
## "cytoplasmic vesicle membrane"
## "eukaryotic translation initiation factor 2 complex"
## "Y chromosome"

```

```

##      "polar microtubule"
##      "clathrin coat of coated pit"
##      "nucleotide-excision repair complex"
##      "plasma membrane bounded cell projection cytoplasm"
##      "cyclin A2-CDK2 complex"
##      "phagolysosome membrane"
##      "neuronal dense core vesicle"
##      "extracellular vesicle"
##      "Golgi-associated vesicle lumen"
##      "outer dense fiber"
##      "plasma membrane raft"
##      "CCAAT-binding factor complex"
##      "ER ubiquitin ligase complex"
##      "GTPase activator complex"
##      "WASH complex"
##      "nuclear pore"
##      "late endosome membrane"
##      "collagen type V trimer"
##      "alveolar lamellar body"
##      "rough endoplasmic reticulum"
##      "collagen type XI trimer"
##      "Dcp1-Dcp2 complex"
##      "dendritic growth cone"
##      "Bcl3/NF-kappaB2 complex"
##      "neuron projection membrane"
##      "varicosity"
##      "MHC class I protein complex"
##      "glutamyl-tRNA(Gln) amidotransferase complex"
##      "cyclin E1-CDK2 complex"
##      "VCB complex"
##      "nucleolus organizer region"
##      "X chromosome"
##      "Rad51C-XRCC3 complex"
##      "chiasma"
##      "late recombination nodule"
##      "Golgi cis cisterna"
##      "excitatory synapse"
##      "intrinsic component of external side of plasma membrane"
##      "cytoplasmic stress granule"
##      "cytoplasmic side of plasma membrane"
##      "proteasome core complex, beta-subunit complex"
##      "EARP complex"
##      "cullin-RING ubiquitin ligase complex"
##      "stereocilium shaft"
##      "stereocilium base"
##      "ERCC4-ERCC1 complex"
##      "endoplasmic reticulum-Golgi intermediate compartment"
##      "axonal growth cone"
##      "sex chromosome"
##      "clathrin adaptor complex"
##      "prefoldin complex"
##      "PCNA-p21 complex"
##      "multivesicular body lumen"
##      "phosphorylase kinase complex"

```

```

##      "MHC class I peptide loading complex"
##      "early endosome membrane"
##      "outer acrosomal membrane"
##      "DNA polymerase III complex"
##      "apical cortex"
##      "DNA ligase IV complex"
##      "PCNA complex"
##      "large ribosomal subunit"
##      "phosphatidylinositol 3-kinase complex, class III"
##      "Shc-EGFR complex"
##      "sarcoplasmic reticulum lumen"
##      "ribbon synapse"
##      "Ire1 complex"
##      "neuronal cell body"
##      "GARP complex"
##      "P granule"
##      "U4atac snRNP"
##      "cis-Golgi network membrane"
##      "extrinsic component of mitochondrial outer membrane"
##      NA
##      "cell wall"
##      "mitochondrial proton-transporting ATP synthase, catalytic core"
##      "guanylate cyclase complex, soluble"
##      "longitudinal sarcoplasmic reticulum"
##      "terminal cisterna lumen"
##      "coated vesicle membrane"
##      "RNA polymerase complex"
##      "intrinsic component of peroxisomal membrane"
##      "uropod membrane"
##      "acrosomal lumen"
##      "nuclear replisome"
##      "C-fiber"
##      "proton-transporting ATP synthase complex"
##      "proton-transporting ATP synthase complex, catalytic core F(1)"
##      "lysosomal proton-transporting V-type ATPase complex"
##      "inflammasome complex"
##      "basal ectoplasmic specialization"
##      "integrin alphaIIb-beta3 complex"
##      "elongin complex"
##      "alpha9-beta1 integrin-ADAM8 complex"
##      "axonemal outer doublet"
##      "A axonemal microtubule"
##      "sweet taste receptor complex"
##      "Cry-Per complex"
##      "axonemal central pair projection"
##      "specific granule membrane"
##      "radial spoke"
##      "calcium- and calmodulin-dependent protein kinase complex"
##      "glomerular endothelium fenestra"
##      "hyaluronan cable"
##      "platelet dense granule"
##      "membrane-bounded organelle"
##      "tRNA-specific adenosine-34 deaminase complex"
##      "prominosome"

```

```

##      "9+0 motile cilium"
##      "proximal portion of axoneme"
##      "serotonin-activated cation-selective channel complex"
##      "granular vesicle"
##      "paranodal junction"
##      "SUMO activating enzyme complex"
##      "protein serine/threonine phosphatase complex"
##      "cortical granule"
##      "leading edge of lamellipodium"
##      "radial spoke stalk"
##      "plasma lipoprotein particle"
##      "chromaffin granule lumen"
##      "oligosaccharyltransferase I complex"
##      "Tle3-Aes complex"
##      "nuclear nucleosome"
##      "collagen type XIII trimer"
##      "axonemal basal plate"
##      "oxidoreductase complex"
##      "outer membrane"
##      "AP-5 adaptor complex"
##      "cytolytic granule"
##      "integrin alpha8-beta1 complex"
##      "cytoplasmic chromatin"
##      "perinuclear theca"
##      "integrin alpha9-beta1 complex"
##      "inner dynein arm"
##      "insulin-like growth factor binary complex"
##      "pericellular basket"
##      "mitochondrial crista"
##      "apical plasma membrane urothelial plaque"
##      "Golgi apparatus"
##      "zymogen granule membrane"
##      "collagen type XVI trimer"
##      "secondary lysosome"
##      "USH2 complex"
##      "Pwp2p-containing subcomplex of 90S preribosome"
##      "interleukin-13 receptor complex"
##      "muscle tendon junction"
##      "organelle inner membrane"
##      "DRM complex"
##      "distal portion of axoneme"
##      "inhibin B complex"
##      "cone matrix sheath"
##      "lamellar body membrane"
##      "alveolar lamellar body membrane"
##      "extrinsic component of presynaptic active zone membrane"
##      "axonemal central apparatus"
##      "peroxisomal importomer complex"
##      "subsarcolemmal mitochondrion"
##      "interfibrillar mitochondrion"
##      "rhabdomere"
##      "interphotoreceptor matrix"
##      "autophagosome lumen"
##      "subapical complex"

```

```

##      "extrinsic component of synaptic membrane"
##      "CST complex"
##      "mitochondrial chromosome"
##      "female germ cell nucleus"
##      "cytoplasmic region"
##      "Slx1-Slx4 complex"
##      "phosphatidylinositol 3-kinase complex, class III, type I"
##      "phosphatidylinositol 3-kinase complex, class III, type II"
##      "BLOC-3 complex"
##      "mannosyltransferase complex"
##      "integral component of external side of plasma membrane"
##      "calcium ion-transporting ATPase complex"
##      "Toll-like receptor 2-Toll-like receptor 6 protein complex"
##      "egg coat"
##      "Cdc48p-Npl4p-Vms1p AAA ATPase complex"
##      "U2-type post-spliceosomal complex"
##      "sperm end piece"
##      "perivitelline space"
##      "transcription factor TFIIH holo complex"
##      "activin A complex"
##      "epidermal lamellar body"
##      "paraferitin complex"
##      "fungal-type vacuole membrane"
##      "Swi5-Sfr1 complex"
##      "collagen type XV trimer"
##      "4-aminobutyrate transaminase complex"
##      "secretory vesicle"
##      "recycling endosome lumen"
##      "apical cytoplasm"
##      "matrix side of mitochondrial inner membrane"
##      "postsynaptic endocytic zone"
##      "glycine-gated chloride channel complex"
##      "CRLF-CLCF1 complex"
##      "extrinsic component of postsynaptic endosome membrane"
##      "costamere"
##      "collagen type XII trimer"
##      "endolysosome"
##      "intracellular vesicle"
##      "mitochondrial fatty acid beta-oxidation multienzyme complex"
##      "COPII vesicle coat"
##      "striated muscle thin filament"
##      "Rab-protein geranylgeranyltransferase complex"
##      "intrinsic component of endosome membrane"
##      "mitochondrial inner membrane peptidase complex"
##      "serine C-palmitoyltransferase complex"
##      "dense fibrillar component"
##      "extrinsic component of postsynaptic early endosome membrane"
##      "gap junction"
##      "pseudopodium membrane"
##      "dense core granule membrane"
##      "hinge region between urothelial plaques of apical plasma membrane"
##      "microvesicle"
##      "phagocytic vesicle"
##      "cytoskeletal calyx"

```



```

##      "inhibin A complex"
##      "type III intermediate filament"
##      "slit diaphragm"
##      "nuclear ubiquitin ligase complex"
##      "PeBoW complex"
##      "GPI-anchor transamidase complex"
##      "Parkin-FBXW7-Cul1 ubiquitin ligase complex"
##      "intrinsic component of endoplasmic reticulum membrane"
##      "integrin alphaM-beta2 complex"
##      "RNA polymerase transcription factor SL1 complex"
##      "protein C inhibitor-TMPRSS7 complex"
##      "protein C inhibitor-TMPRSS11E complex"
##      "protein C inhibitor-PLAT complex"
##      "protein C inhibitor-PLAU complex"
##      "protein C inhibitor-thrombin complex"
##      "protein C inhibitor-KLK3 complex"
##      "protein C inhibitor-plasma kallikrein complex"
##      "protein C inhibitor-coagulation factor V complex"
##      "protein C inhibitor-coagulation factor Xa complex"
##      "protein C inhibitor-coagulation factor XI complex"
##      "anchored component of postsynaptic recycling endosome membrane"
##      "ectoplasm"
##      "integral component of omegasome membrane"
##      "NOS2-CD74 complex"
##      "late endosome lumen"
##      "zeta DNA polymerase complex"
##      "meprin A complex"
##      "Cul2-RING ubiquitin ligase complex"
##      "striated muscle dense body"
##      "anchored component of postsynaptic density membrane"
##      "protein kinase 5 complex"
##      "distal axon"
##      "dimeric IgA immunoglobulin complex"
##      "HCN channel complex"
##      "interleukin-28 receptor complex"
##      "integrin alphaL-beta2 complex"
##      "cone cell pedicle"
##      "tethering complex"
##      "Ino80 complex"
##      "Schwann cell microvillus"
##      "integral component of neuronal dense core vesicle membrane"
##      "CERF complex"
##      "integrin alpha7-beta1 complex"
##      "RNA polymerase I transcription factor complex"
##      "presynaptic endosome"
##      "replisome"
##      "Nem1-Spo7 phosphatase complex"
##      "transverse filament"
##      "Mon1-Ccz1 complex"
##      "integrin alpha11-beta1 complex"
##      "integrin alpha10-beta1 complex"
##      "integrin alpha4-beta1 complex"
##      "EMILIN complex"
##      "protein-lipid complex"

```

```

##      "perineuronal net"
##      "Gtr1-Gtr2 GTPase complex"
##      "mesaxon"
##      "fibrinogen complex"
##      "Golgi cisterna"
##      "cell-substrate junction"
##      "integrin alphav-beta6 complex"
##      "postsynaptic specialization of symmetric synapse"
##      "viral integration complex"
##      "6-phosphofructo-2-kinase/fructose-2,6-biphosphatase complex"
##      "cytoplasmic side of late endosome membrane"
##      "TRAPPI protein complex"
##      "actin cortical patch"
##      "actin filament"
##      "tumor necrosis factor receptor superfamily complex"
##      "collagen type III trimer"
##      "collagen type VIII trimer"
##      "myosin VII complex"
##      "upper tip-link density"
##      "nucleus-vacuole junction"
##      "intrinsic component of the cytoplasmic side of the plasma membrane"
##      "integrin alphav-beta8 complex"
##      "Golgi trans cisterna"
##      "smooth endoplasmic reticulum membrane"
##      "ciliary plasm"
##      "presynaptic cytoskeleton"
##      "postsynaptic specialization membrane"
##      "integral component of spine apparatus membrane"
##      "axon"
##      "mRNA cap methyltransferase complex"
##      "intermediate filament cytoskeleton"
##      "postsynaptic endosome"
##      "cytoplasmic cyclin-dependent protein kinase holoenzyme complex"
##      "apolipoprotein B mRNA editing enzyme complex"
##      "CD40 receptor complex"
##      "spliceosomal snRNP complex"
##      "sperm flagellum"
##      "interleukin-12 receptor complex"
##      "RNA polymerase I core factor complex"
##      "spindle matrix"
##      "ficolin-1-rich granule membrane"
##      "stereocilia ankle link"
##      "collagen type XIV trimer"
##      "ribonuclease P complex"
##      "nuclear RNA-directed RNA polymerase complex"
##      "extrinsic component of Golgi membrane"
##      "septin cytoskeleton"
##      "HOPS complex"
##      "eRF1 methyltransferase complex"
##      "lamellar body"
##      "growing cell tip"
##      "host cell presynaptic membrane"
##      "serine protease inhibitor complex"
##      "serine-type peptidase complex"

```

```

##      "perinucleolar compartment"
##      "CSF1-CSF1R complex"
##      "FHF complex"
##      "potassium:proton exchanging ATPase complex"
##      "ion channel complex"
##      "palmitoyltransferase complex"
##      "intracellular organelle"
##      "interleukin-12 complex"
##      "photoreceptor cell cilium"
##      "CURI complex"
##      "UTP-C complex"
##      "apical part of cell"
##      "stereocilia ankle link complex"
##      "intracellular cyclic nucleotide activated cation channel complex"
##      "dentate gyrus mossy fiber"
##      "transmembrane transporter complex"
##      "RNA polymerase III complex"
##      "perinuclear region of cytoplasm"
##      "integrin alpha3-beta1 complex"
##      "Elg1 RFC-like complex"
##      "RISC-loading complex"
##      "nuclear envelope lumen"
##      "luminal side of Golgi membrane"
##      "Derlin-1-VIMP complex"
##      "extrinsic component of vacuolar membrane"
##      "PAS complex"
##      "collagen type II trimer"
##      "molybdopterin synthase complex"
##      "cell pole"
##      "telomerase catalytic core complex"
##      "RNA-directed RNA polymerase complex"
##      "chromaffin granule"
##      "anchored component of presynaptic active zone membrane"
##      "TERT-RMRP complex"
##      "organelle membrane contact site"
##      "intracellular canaliculus"
##      "synaptobrevin 2-SNAP-25-syntaxin-3-complexin complex"
##      "interleukin-23 complex"
##      "phagocytic vesicle lumen"
##      "CNTFR-CLCF1 complex"
##      "cochlear hair cell ribbon synapse"
##      "myofibril"
##      "filopodium membrane"
##      "centriolar satellite"
##      "host cell surface"
##      "SMN-Gemin2 complex"
##      "recycling endosome"
##      "tertiary granule membrane"
##      "hippocampal mossy fiber expansion"
##      "Nata complex"
##      "lateral cell cortex"
##      "viral replication complex"
##      "G-protein beta/gamma-subunit complex"
##      "FACT complex"

```

"spanning component of plasma membrane"
 ## "NatC complex"
 ## "mitochondrial DNA-directed RNA polymerase complex"
 ## "gamma-tubulin small complex, mitotic spindle pole body"
 ## "Noc4p-Nop14p complex"
 ## "Barr body"
 ## "Cdc73/Paf1 complex"
 ## "BLOC-2 complex"
 ## "UDP-N-acetylglucosamine transferase complex"
 ## "interleukin-23 receptor complex"
 ## "cation-transporting ATPase complex"
 ## "parallel fiber"
 ## "amyloid-beta complex"
 ## "box H/ACA scaRNP complex"
 ## "box H/ACA telomerase RNP complex"
 ## "lipoprotein particle"
 ## "Arp2/3 protein complex"
 ## "U6atac snRNP"
 ## "U4atac/U6atac snRNP"
 ## "BORC complex"
 ## "extracellular membrane-bounded organelle"
 ## "macropinocytic cup"
 ## "fibrillar collagen trimer"
 ## "cell-cell contact zone"
 ## "host cell"
 ## "integrin alpha1-beta1 complex"
 ## "mucus layer"
 ## "endocytic vesicle lumen"
 ## "90S preribosome"
 ## "neuron projection branch point"
 ## "dendritic spine cytoplasm"
 ## "Piccolo NuA4 histone acetyltransferase complex"
 ## "Rix1 complex"
 ## "tertiary granule"
 ## "climbing fiber"
 ## "9+2 motile cilium"
 ## "KICSTOR complex"
 ## "RNA polymerase II, holoenzyme"
 ## "trans-Golgi network transport vesicle membrane"
 ## "inner mucus layer"
 ## "outer mucus layer"
 ## "epididymosome"
 ## "ARC complex"
 ## "SLIK (SAGA-like) complex"
 ## "elastic fiber"
 ## "RNA polymerase I complex"
 ## "tRNA (m1A) methyltransferase complex"
 ## "Regulator complex"
 ## "PET complex"
 ## "inner acrosomal membrane"
 ## "early endosome lumen"
 ## "cytosolic aryl hydrocarbon receptor complex"
 ## "t-UTP complex"
 ## "CAAX-protein geranylgeranyltransferase complex"

```

##      "neuromuscular junction"
##      "granular component"
##      "Toll-like receptor 1-Toll-like receptor 2 protein complex"
##      "preribosome, large subunit precursor"
##      "RNA polymerase II transcription repressor complex"
##      "Dbf4-dependent protein kinase complex"
##      "Smc5-Smc6 complex"
##      "tubulobulbar complex"
##      "ciliary inversin compartment"
##      "laminin-3 complex"
##      "THO complex"
##      "perisynaptic extracellular matrix"
##      "H zone"
##      "hippocampal mossy fiber to CA3 synapse"
##      "SPOTS complex"
##      "euchromatin"
##      "protein phosphatase 4 complex"
##      "granulocyte macrophage colony-stimulating factor receptor complex"
##      "PCSK9-LDLR complex"
##      "cytosolic tRNA wobble base thiouridylase complex"
##      "ACF complex"
##      "integral component of organelle membrane"
##      "stereocilium tip"
##      "sperm midpiece"
##      "nuclear cyclin-dependent protein kinase holoenzyme complex"
##      "intercalated disc"
##      "multi-eIF complex"
##      "peripheral region of growth cone"
##      "TRAMP complex"
##      "NLS-dependent protein nuclear import complex"
##      "synaptonemal complex"
##      "P-body"
##      "RSC-type complex"
##      "autosome"
##      "dystroglycan complex"
##      "Bcl3-Bcl10 complex"
##      "Golgi medial cisterna"
##      "symbiont-containing vacuole"
##      "recombination nodule"
##      "keratohyalin granule"
##      "perikaryon"
##      "TRAPPIII protein complex"
##      "AP-type membrane coat adaptor complex"
##      "EGO complex"
##      "Golgi cisterna membrane"
##      "NLRP1 inflammasome complex"
##      "microspike"
##      "C zone"
##      "MSL complex"
##      "protease inhibitor complex"
##      "sex chromatin"
##      "transcription factor TFIIIC complex"
##      "MCM8-MCM9 complex"
##      "RIC1-RGP1 guanyl-nucleotide exchange factor complex"

```

```

##      "glycinergic synapse"
##      "Z disc"
##      "BMP receptor complex"
##      "XY body"
##      "platelet dense tubular network"
##      "desmosome"
##      "translation initiation ternary complex"
##      "omegasome"
##      "collagen type IX trimer"
##      "sperm cytoplasmic droplet"
##      "ATP-binding cassette (ABC) transporter complex"
##      "lamellipodium membrane"
##      "lamin filament"
##      "MPP7-DLG1-LIN7 complex"
##      "retromer complex"
##      "Fc-epsilon receptor I complex"
##      "Lsd1/2 complex"
##      "distal dendrite"
##      "apical distal dendrite"
##      "interleukin-1 receptor complex"
##      "TRAPPII protein complex"
##      "stereocilium bundle"
##      "retromer, cargo-selective complex"
##      "haptoglobin-hemoglobin complex"
##      "glial limiting end-foot"
##      "eukaryotic 43S preinitiation complex"
##      "outer dynein arm"
##      "SMC loading complex"
##      "Scc2-Scc4 cohesin loading complex"
##      "DNA topoisomerase complex (ATP-hydrolyzing)"
##      "dendritic tree"
##      "HFE-transferrin receptor complex"
##      "tRNA methyltransferase complex"
##      "endolysosome lumen"
##      "snRNA-activating protein complex"
##      "inhibin-betaglycan-ActRII complex"
##      "anchored component of postsynaptic membrane"
##      "MutLalpha complex"
##      "host cell viral assembly compartment"
##      "tricellular tight junction"
##      "clathrin-coated endocytic vesicle"
##      "microtubule end"
##      "Noc1p-Noc2p complex"
##      "Noc2p-Noc3p complex"
##      "box H/ACA snoRNP complex"
##      "eukaryotic translation initiation factor 3 complex"
##      "DUBm complex"
##      "NADPH oxidase complex"
##      "dendritic spine head"
##      "central region of growth cone"
##      "CA3 pyramidal cell dendrite"
##      "IPAF inflammasome complex"
##      "glutamate-cysteine ligase complex"
##      "integrin alpha6-beta4 complex"

```

```

##      "cytoplasmic vesicle lumen"
##      "oncostatin-M receptor complex"
##      "epsilon DNA polymerase complex"
##      "ASTRA complex"
##      "integral component of lumenal side of endoplasmic reticulum membrane"
##      "apical tubulobulbar complex"
##      "basal tubulobulbar complex"
##      "microvillus membrane"
##      "tetraspanin-enriched microdomain"
##      "anchored component of presynaptic membrane"
##      "CHRAc"
##      "RecQ helicase-Topo III complex"
##      "endolysosome membrane"
##      "endothelial microparticle"
##      "protein kinase complex"
##      "GINS complex"
##      "photoreceptor inner segment membrane"
##      "acetylcholine-gated channel complex"
##      "intraciliary transport particle"
##      "rod spherule"
##      "laminin-8 complex"
##      "muscle cell projection membrane"
##      "methyltransferase complex"
##      "proximal neuron projection"
##      "cytoplasmic ubiquitin ligase complex"
##      "DNA replication factor C complex"
##      "protein complex involved in cell adhesion"
##      "presynaptic intermediate filament cytoskeleton"
##      "kainate selective glutamate receptor complex"
##      "microtubule bundle"
##      "dehydrodolichyl diphosphate synthase complex"
##      "PCSK9-AnxA2 complex"
##      "host cell perinuclear region of cytoplasm"
##      "PAN complex"
##      "extracellular space"
##      "CORVET complex"
##      "extrinsic component of presynaptic membrane"
##      "collagen type VII trimer"
##      "ESCRT III complex"
##      "clathrin coat of endocytic vesicle"
##      "macrophage migration inhibitory factor receptor complex"
##      "extrinsic component of membrane"
##      "methionyl glutamyl tRNA synthetase complex"
##      "cell-substrate adherens junction"
##      "nuclear stress granule"
##      "THO complex part of transcription export complex"
##      "TAP complex"
##      "invadopodium membrane"
##      "clathrin-coated pit"
##      "NatB complex"
##      "AP-1 adaptor complex"
##      "serine-pyruvate aminotransferase complex"
##      "synapse"
##      "TORC2 complex"

```

```

##      "septin collar"
##      "postsynaptic intermediate filament cytoskeleton"
##      "cell cortex region"
##      "citrate lyase complex"
##      "Rad17 RFC-like complex"
##      "condensin complex"
##      "cation channel complex"
##      "phagolysosome"
##      "micro-ribonucleoprotein complex"
##      "lateral loop"
##      "RNA N6-methyladenosine methyltransferase complex"
##      "syntrophin complex"
##      "death-inducing signaling complex"
##      "FANCM-MHF complex"
##      "NLRP3 inflammasome complex"
##      "9+0 non-motile cilium"
##      "interleukin-6 receptor complex"
##      "negative cofactor 2 complex"
##      "Hrd1p ubiquitin ligase ERAD-L complex"
##      "monomeric IgA immunoglobulin complex"
##      "secretory IgA immunoglobulin complex"
##      "secretory dimeric IgA immunoglobulin complex"
##      "complement component C1 complex"
##      "parallel fiber to Purkinje cell synapse"
##      "glycosylphosphatidylinositol-N-acetylglucosaminyltransferase (GPI-GnT) complex"
##      "protein kinase CK2 complex"
##      "transcription factor TFIIK complex"
##      "integral component of cytoplasmic side of endoplasmic reticulum membrane"
##      "integral component of nuclear outer membrane"
##      "insulin-like growth factor binding protein complex"
##      "NF-kappaB p50/p65 complex"
##      "microprocessor complex"
##      "piP-body"
##      "MHC class Ib protein complex"
##      "endocytic vesicle membrane"
##      "Scrib-APC-beta-catenin complex"
##      "pinceau fiber"
##      "other organism cell membrane"
##      "integrin alphav-beta3 complex"
##      "condensin core heterodimer"
##      "meiotic nuclear membrane microtubule tethering complex"
##      "nucleoid"
##      "protein farnesyltransferase complex"
##      "Gemini of coiled bodies"
##      "RQC complex"
##      "host cell PML body"
##      "nuclear subtelomeric heterochromatin"
##      "pentameric IgM immunoglobulin complex"
##      "hexameric IgM immunoglobulin complex"
##      "collagen type VI trimer"
##      "insulin-like growth factor ternary complex"
##      "interleukin-18 receptor complex"
##      "kinesin I complex"
##      "myosin V complex"

```


"cyclin K-CDK13 complex"
 ## "cytoplasmic side of apical plasma membrane"
 ## "kinociliary basal body"
 ## "NMDA selective glutamate receptor complex"
 ## "half bridge of spindle pole body"
 ## "U4/U6 snRNP"
 ## "AP-4 adaptor complex"
 ## "catalytic step 1 spliceosome"
 ## "early phagosome"
 ## "integral component of lysosomal membrane"
 ## "delta DNA polymerase complex"
 ## "laminin-2 complex"
 ## "integrin alphav-beta5 complex"
 ## "cell tip"
 ## "hippocampal mossy fiber"
 ## "cytoskeleton of presynaptic active zone"
 ## "histone locus body"
 ## "unconventional myosin complex"
 ## "activating signal cointegrator 1 complex"
 ## "junctional membrane complex"
 ## "presynaptic endocytic zone membrane"
 ## "cytoplasmic microtubule"
 ## "nuclear SCF ubiquitin ligase complex"
 ## "growth cone leading edge"
 ## "ESCRT II complex"
 ## "HIR complex"
 ## "lysosomal lumen"
 ## "immunological synapse"
 ## "postsynaptic specialization"
 ## "sodium channel complex"
 ## "exocyst"
 ## "transcription export complex"
 ## "ciliary neurotrophic factor receptor complex"
 ## "interphase microtubule organizing center"
 ## "presynaptic endocytic zone"
 ## "pi-body"
 ## "HSP90-CDC37 chaperone complex"
 ## "intercellular canaliculus"
 ## "perinucleolar chromocenter"
 ## "dendritic filopodium"
 ## "B cell receptor complex"
 ## "alphav-beta3 integrin-vitronectin complex"
 ## "mucin granule"
 ## "other organism cell"
 ## "stress fiber"
 ## "polycystin complex"
 ## "U2-type post-mRNA release spliceosomal complex"
 ## "primary dendrite"
 ## "eukaryotic 48S preinitiation complex"
 ## "laminin-1 complex"
 ## "Rad6-Rad18 complex"
 ## "cytoplasmic ribonucleoprotein granule"
 ## "cardiac Troponin complex"
 ## "Wnt-Frizzled-LRP5/6 complex"

```

##      "BRCA2-MAGE-D1 complex"
##      "messenger ribonucleoprotein complex"
##      "astrocyte projection"
##      "integral component of synaptic membrane"
##      "TORC1 complex"
##      "eukaryotic translation initiation factor 3 complex, eIF3e"
##      "ATF4-CREB1 transcription factor complex"
##      "ruffle"
##      "astrocyte end-foot"
##      "voltage-gated sodium channel complex"
##      "condensed nuclear chromosome inner kinetochore"
##      "ribonuclease H2 complex"
##      "cortical microtubule"
##      "cytoplasmic microtubule bundle"
##      "trans-Golgi network"
##      "intracellular ferritin complex"
##      "mRNA cleavage stimulating factor complex"
##      "alphav-beta3 integrin-HMGB1 complex"
##      "post-spliceosomal complex"
##      "Hrd1p ubiquitin ligase complex"
##      "SOSS complex"
##      "phagophore assembly site"
##      "Cul5-RING ubiquitin ligase complex"
##      "ribonucleoprotein granule"
##      "gamma-catenin-TCF7L2 complex"
##      "telomeric heterochromatin"
##      "cleavage body"
##      "alphav-beta3 integrin-IGF-1-IGF1R complex"
##      "nuclear pore transmembrane ring"
##      "PR-DUB complex"
##      "DBIRD complex"
##      "anaphase-promoting complex"
##      "cyclin K-CDK12 complex"
##      "collagen type IV trimer"
##      "proteasome activator complex"
##      "SAGA complex"
##      "Mis6-Sim4 complex"
##      "nuclear origin of replication recognition complex"
##      "nuclear replication fork"
##      "photoreceptor ribbon synapse"
##      "cellular_component"
##      "extrinsic component of postsynaptic specialization membrane"
##      "asymmetric, glutamatergic, excitatory synapse"
##      "ATF1-ATF4 transcription factor complex"
##      "collagen type I trimer"
##      "tubular endosome"
##      "caveola"
##      "ripiptosome"
##      "cuticular plate"
##      "symmetric, GABA-ergic, inhibitory synapse"
##      "Ctf18 RFC-like complex"
##      "U2-type spliceosomal complex"
##      "nucleotide-excision repair factor 2 complex"
##      "nuclear pore central transport channel"

```

"neurosecretory vesicle"
 ## "follicle-stimulating hormone complex"
 ## "inhibitory synapse"
 ## "laminin-5 complex"
 ## "intrinsic component of Golgi membrane"
 ## "senescence-associated heterochromatin focus"
 ## "MAML1-RBP-Jkappa- ICN1 complex"
 ## "synaptobrevin 2-SNAP-25-syntaxin-1a complex"
 ## "TRC complex"
 ## "discoidal high-density lipoprotein particle"
 ## "neuronal cell body membrane"
 ## "UFD1-NPL4 complex"
 ## "transcription factor TFIIE complex"
 ## "STAGA complex"
 ## "interstitial matrix"
 ## "core-binding factor complex"
 ## "extrinsic component of endoplasmic reticulum membrane"
 ## "neurofilament cytoskeleton"
 ## "TRAF2-GSTP1 complex"
 ## "endocytic vesicle"
 ## "transcription export complex 2"
 ## "annulate lamellae"
 ## "PCAF complex"
 ## "junctional sarcoplasmic reticulum membrane"
 ## "platelet dense granule lumen"
 ## "nuclear euchromatin"
 ## "AIM2 inflammasome complex"
 ## "chromosome, centromeric core domain"
 ## "cardiac myofibril"
 ## "membrane coat"
 ## "interleukin-5 receptor complex"
 ## "extrinsic component of phagophore assembly site membrane"
 ## "extrinsic component of omegasome membrane"
 ## "CHOP-ATF3 complex"
 ## "spectrin-associated cytoskeleton"
 ## "dendritic spine neck"
 ## "dendritic microtubule"
 ## "nuclear microtubule"
 ## "UBC13-MMS2 complex"
 ## "extracellular region"
 ## "cortical endoplasmic reticulum"
 ## "CBM complex"
 ## "AIP1-IRE1 complex"
 ## "other organism cytoplasm"
 ## "compact myelin"
 ## "Ski complex"
 ## "CGRP receptor complex"
 ## "nuclear RNA export factor complex"
 ## "glial cytoplasmic inclusion"
 ## "classical Lewy body"
 ## "Lewy neurite"
 ## "Lewy body corona"
 ## "PTW/PP1 phosphatase complex"
 ## "nucleotide-excision repair factor 3 complex"

```

##      "Cul3-RING ubiquitin ligase complex"
##      "nuclear condensin complex"
##      "photoreceptor cell terminal bouton"
##      "LUBAC complex"
##      "RSF complex"
##      "spanning component of membrane"
##      "plus-end kinesin complex"
##      "activin responsive factor complex"
##      "lipid tube"
##      "central element"
##      "transcription factor TFIIH core complex"
##      "somatodendritic compartment"
##      "G protein-coupled receptor dimeric complex"
##      "G protein-coupled receptor homodimeric complex"
##      "gamma DNA polymerase complex"
##      "nuclear exosome (RNase complex)"
##      "IRE1-TRAF2-ASK1 complex"
##      "laminin-11 complex"
##      "cytoplasmic exosome (RNase complex)"
##      "contractile ring"
##      "NSL complex"
##      "stereocilium membrane"
##      "Rad51B-Rad51C-Rad51D-XRCC2 complex"
##      "cytoplasmic side of nuclear pore"
##      "proteasome core complex"
##      "dendrite membrane"
##      "myosin filament"
##      "eukaryotic translation initiation factor 3 complex, eIF3m"
##      "gamma-tubulin complex"
##      "microfibril"
##      "GABA-ergic synapse"
##      "nuclear pre-replicative complex"
##      "transcription factor TFIIIC complex"
##      "transport vesicle"
##      "cell body fiber"
##      "transport vesicle membrane"
##      "AP-3 adaptor complex"
##      "tRNA-splicing ligase complex"
##      "integrin alpha2-beta1 complex"
##      "periciliary membrane compartment"
##      "lamellipodium"
##      "amylin receptor complex 1"
##      "spherical high-density lipoprotein particle"
##      "Elongator holoenzyme complex"
##      "myelin sheath adaxonal region"
##      "anchored component of plasma membrane"
##      "integral component of peroxisomal membrane"
##      "catalytic complex"
##      "spermatoproteasome complex"
##      "extrinsic component of postsynaptic membrane"
##      "dendrite terminus"
##      "postsynapse"
##      "clathrin-sculpted monoamine transport vesicle membrane"
##      "endoplasmic reticulum-Golgi intermediate compartment membrane"

```

```

##      "axonal spine"
##      "nuclear telomeric heterochromatin"
##      "multivesicular body membrane"
##      "SMN complex"
##      "Weibel-Palade body"
##      "mitotic checkpoint complex"
##      "bub1-bub3 complex"
##      "MOZ/MORF histone acetyltransferase complex"
##      "DNA-dependent protein kinase-DNA ligase 4 complex"
##      "nuclear chromosome"
##      "ESCRT-0 complex"
##      "nuclear outer membrane-endoplasmic reticulum membrane network"
##      "synaptic vesicle lumen"
##      "neuronal dense core vesicle lumen"
##      "intraciliary transport particle A"
##      "CHOP-ATF4 complex"
##      "proximal dendrite"
##      "mature chylomicron"
##      "chylomicron remnant"
##      "axonemal microtubule"
##      "CCR4-NOT core complex"
##      "synaptobrevin 2-SNAP-25-syntaxin-1a-complexin II complex"
##      "ELL-EAF complex"
##      "GABA receptor complex"
##      "mitotic cohesin complex"
##      "centrosomal corona"
##      "Golgi-associated vesicle membrane"
##      "protein-containing complex"
##      "tRNA-intron endonuclease complex"
##      "DNA replication preinitiation complex"
##      "heterochromatin"
##      "SAGA-type complex"
##      "integral component of nuclear inner membrane"
##      "alpha-v-beta3 integrin-PKCa complex"
##      "new growing cell tip"
##      "pronucleus"
##      "troponin complex"
##      "zymogen granule"
##      "sperm plasma membrane"
##      "nuclear membrane"
##      "perinuclear endoplasmic reticulum"
##      "postsynaptic spectrin-associated cytoskeleton"
##      "germinal vesicle"
##      "TEAD-1-YAP complex"
##      "suprapliceosomal complex"
##      "adrenomedullin receptor complex"
##      "Flemming body"
##      "condensed chromosome inner kinetochore"
##      "laminin-10 complex"
##      "exosome (RNase complex)"
##      "recycling endosome membrane"
##      "box C/D snoRNP complex"
##      "integrator complex"
##      "rough endoplasmic reticulum lumen"

```

"striated muscle myosin thick filament"
 ## "retromer, tubulation complex"
 ## "NF-kappaB complex"
 ## "extrinsic component of autophagosome membrane"
 ## "Holliday junction resolvase complex"
 ## "acrosomal membrane"
 ## "TSC1-TSC2 complex"
 ## "symbiont-containing vacuole membrane"
 ## "cytoskeleton"
 ## "neuronal ribonucleoprotein granule"
 ## "platelet alpha granule"
 ## "XPC complex"
 ## "clathrin-sculpted acetylcholine transport vesicle membrane"
 ## "ESCRT I complex"
 ## "cell projection membrane"
 ## "checkpoint clamp complex"
 ## "Golgi membrane"
 ## "SCAR complex"
 ## "proteasome core complex, alpha-subunit complex"
 ## "serotonergic synapse"
 ## "DSIF complex"
 ## "signal recognition particle receptor complex"
 ## "CHOP-C/EBP complex"
 ## "azurophil granule"
 ## "mitotic spindle astral microtubule"
 ## "cyclin D2-CDK4 complex"
 ## "clathrin-sculpted glutamate transport vesicle membrane"
 ## "chromaffin granule membrane"
 ## "amylin receptor complex 3"
 ## "precatalytic spliceosome"
 ## "Dsl1/NZR complex"
 ## "GABA-A receptor complex"
 ## "UBC13-UEV1A complex"
 ## "nuclear lumen"
 ## "centriolar subdistal appendage"
 ## "Schmidt-Lanterman incisure"
 ## "TRAPP complex"
 ## "amylin receptor complex 2"
 ## "semaphorin receptor complex"
 ## "ribonuclease MRP complex"
 ## "myelin sheath abaxonal region"
 ## "brush border"
 ## "SREBP-SCAP-Insig complex"
 ## "plasma membrane protein complex"
 ## "Lewy body core"
 ## "MCM complex"
 ## "membrane attack complex"
 ## "growth cone membrane"
 ## "condensed chromosome"
 ## "specific granule"
 ## "protein phosphatase type 1 complex"
 ## "integral component of presynaptic active zone membrane"
 ## "TEAD-2-YAP complex"
 ## "filamentous actin"

"BLOC-1 complex"
 ## "pericentriolar material"
 ## "Ku70:Ku80 complex"
 ## "guanyl-nucleotide exchange factor complex"
 ## "ubiquitin conjugating enzyme complex"
 ## "podosome"
 ## "U11/U12 snRNP"
 ## "neurofibrillary tangle"
 ## "IRE1-RACK1-PP2A complex"
 ## "Grb2-Sos complex"
 ## "dendritic spine membrane"
 ## "L-type voltage-gated calcium channel complex"
 ## "TCR signalosome"
 ## "CD95 death-inducing signaling complex"
 ## "microtubule minus-end"
 ## "pre-snoRNP complex"
 ## "kinesin II complex"
 ## "nuclear pore inner ring"
 ## "Ndc80 complex"
 ## "presynaptic active zone cytoplasmic component"
 ## "Wnt signalosome"
 ## "sarcolemma"
 ## "intermediate-density lipoprotein particle"
 ## "DNA repair complex"
 ## "apicolateral plasma membrane"
 ## "shelterin complex"
 ## "vacuole"
 ## "Atg1/ULK1 kinase complex"
 ## "nuclear pore nuclear basket"
 ## "synaptobrevin 2-SNAP-25-syntaxin-1a-complexin I complex"
 ## "rDNA heterochromatin"
 ## "cytoplasmic periphery of the nuclear pore complex"
 ## "core TFIIH complex portion of holo TFIIH complex"
 ## "Prp19 complex"
 ## "extrinsic component of endosome membrane"
 ## "photoreceptor inner segment"
 ## "manchette"
 ## "BBSome"
 ## "heteromeric SMAD protein complex"
 ## "Mre11 complex"
 ## "high-density lipoprotein particle"
 ## "postsynaptic density, intracellular component"
 ## "growth cone lamellipodium"
 ## "nucleolar ribonuclease P complex"
 ## "microtubule associated complex"
 ## "vesicle coat"
 ## "chloride channel complex"
 ## "storage vacuole"
 ## "extrinsic component of postsynaptic density membrane"
 ## "transcription factor TFIIIB complex"
 ## "secretory granule"
 ## "synaptic cleft"
 ## "preribosome"
 ## "anchored component of external side of plasma membrane"

"condensed nuclear chromosome"
 ## "inactive sex chromosome"
 ## "astral microtubule"
 ## "dendritic branch"
 ## "growth cone filopodium"
 ## "nuclear lamina"
 ## "signal recognition particle"
 ## "perinuclear endoplasmic reticulum membrane"
 ## "filopodium tip"
 ## "RZZ complex"
 ## "uropod"
 ## "ciliary rootlet"
 ## "nuclear pericentric heterochromatin"
 ## "macropinosome"
 ## "sarcoplasm"
 ## "GATOR2 complex"
 ## "ribonucleoprotein complex"
 ## "spindle pole body"
 ## "endoplasmic reticulum Sec complex"
 ## "nuclear inclusion body"
 ## "nuclear MIS12/MIND complex"
 ## "eukaryotic 80S initiation complex"
 ## "interchromatin granule"
 ## "paranode region of axon"
 ## "extrinsic component of external side of plasma membrane"
 ## "multimeric ribonuclease P complex"
 ## "MLL3/4 complex"
 ## "CCR4-NOT complex"
 ## "bleb"
 ## "ASAP complex"
 ## "intrinsic component of membrane"
 ## "specific granule lumen"
 ## "kinetochore microtubule"
 ## "sumoylated E2 ligase complex"
 ## "myosin complex"
 ## "site of double-strand break"
 ## "Schaffer collateral - CA1 synapse"
 ## "equatorial microtubule organizing center"
 ## "Myb complex"
 ## "Cul4B-RING E3 ubiquitin ligase complex"
 ## "postsynaptic endocytic zone cytoplasmic component"
 ## "ubiquitin ligase complex"
 ## "chylomicron"
 ## "ciliary transition fiber"
 ## "postsynaptic endocytic zone membrane"
 ## "postsynaptic membrane"
 ## "dendritic shaft"
 ## "low-density lipoprotein particle"
 ## "integral component of postsynaptic specialization membrane"
 ## "apical dendrite"
 ## "cortical microtubule cytoskeleton"
 ## "photoreceptor connecting cilium"
 ## "histone pre-mRNA 3'end processing complex"
 ## "cell leading edge"


```

##      "main axon"
##      "transferase complex"
##      "cyclin B1-CDK1 complex"
##      "very-low-density lipoprotein particle"
##      "transcription factor TFIIF complex"
##      "lateral plasma membrane"
##      "node of Ranvier"
##      "nuclear transcription factor complex"
##      "ciliary transition zone"
##      "cell division site"
##      "ribosome"
##      "neurofilament"
##      "PcG protein complex"
##      "basal part of cell"
##      "integral component of synaptic vesicle membrane"
##      "small nucleolar ribonucleoprotein complex"
##      "deuterosome"
##      "Grb2-EGFR complex"
##      "phosphatidylinositol 3-kinase complex"
##      "secretory granule membrane"
##      "nuclear meiotic cohesin complex"
##      "U2-type catalytic step 1 spliceosome"
##      "translation release factor complex"
##      "origin recognition complex"
##      "NURF complex"
##      "integral component of Golgi membrane"
##      "beta-catenin destruction complex"
##      "cleavage furrow"
##      "transcription factor TFIIA complex"
##      "signal recognition particle, endoplasmic reticulum targeting"
##      "ruffle membrane"
##      "chromatin silencing complex"
##      "insulin receptor complex"
##      "site of DNA damage"
##      "Lsm1-7-Pat1 complex"
##      "muscle thin filament tropomyosin"
##      "CAF-1 complex"
##      "zonula adherens"
##      "collagen trimer"
##      "clathrin vesicle coat"
##      "hemidesmosome"
##      "male pronucleus"
##      "intraciliary transport particle B"
##      "Rb-E2F complex"
##      "polysome"
##      "extracellular matrix"
##      "cis-Golgi network"
##      "G protein-coupled receptor heterodimeric complex"
##      "exocytic vesicle"
##      "U6 snRNP"
##      "T cell receptor complex"
##      "Cul4A-RING E3 ubiquitin ligase complex"
##      "glial cell projection"
##      "asymmetric synapse"

```

```

##      "presynaptic active zone membrane"
##      "replication fork"
##      "replication fork protection complex"
##      "condensed nuclear chromosome kinetochore"
##      "nuclear pore cytoplasmic filaments"
##      "cytoplasmic side of rough endoplasmic reticulum membrane"
##      "Set1C/COMPASS complex"
##      "phagocytic cup"
##      "Cul4-RING E3 ubiquitin ligase complex"
##      "MIS12/MIND type complex"
##      "organelle membrane"
##      "axon cytoplasm"
##      "actomyosin contractile ring"
##      "stereocilium"
##      "gamma-tubulin small complex"
##      "growth cone"
##      "nuclear telomere cap complex"
##      "nuclear cap binding complex"
##      "HULC complex"
##      "phosphatidylinositol 3-kinase complex, class IA"
##      "intercellular bridge"
##      "condensed nuclear chromosome outer kinetochore"
##      "nonhomologous end joining complex"
##      "MKS complex"
##      "integrin complex"
##      "spine apparatus"
##      "transcriptional repressor complex"
##      "BRCA1-A complex"
##      "small-subunit processome"
##      "core mediator complex"
##      "ESC/E(Z) complex"
##      "Mpp10 complex"
##      "basal dendrite"
##      "RNA cap binding complex"
##      "cilium"
##      "intermediate filament"
##      "cell projection"
##      "condensed chromosome outer kinetochore"
##      "voltage-gated calcium channel complex"
##      "transcription factor TFIID complex"
##      "cytoplasmic vesicle"
##      "anchored component of membrane"
##      "basal plasma membrane"
##      "apical junction complex"
##      "trans-Golgi network membrane"
##      "post-mRNA release spliceosomal complex"
##      "beta-catenin-TCF7L2 complex"
##      "dynein complex"
##      "female pronucleus"
##      "axon initial segment"
##      "PRC1 complex"
##      "mitotic spindle"
##      "symmetric synapse"
##      "adherens junction"

```

"transcriptionally active chromatin"
 ## "transforming growth factor beta receptor complex"
 ## "flotillin complex"
 ## "perichromatin fibrils"
 ## "basal cortex"
 ## "U2AF"
 ## "signal peptidase complex"
 ## "Ada2/Gcn5/Ada3 transcription activator complex"
 ## "axolemma"
 ## "activin receptor complex"
 ## "microtubule plus-end"
 ## "chromosome passenger complex"
 ## "presynaptic active zone"
 ## "alpha-beta T cell receptor complex"
 ## "endosome lumen"
 ## "centriole"
 ## "axon hillock"
 ## "leading edge membrane"
 ## "BRCA1-BARD1 complex"
 ## "condensed nuclear chromosome, centromeric region"
 ## "HAUS complex"
 ## "myosin II filament"
 ## "postsynaptic specialization, intracellular component"
 ## "extrinsic component of cytoplasmic side of plasma membrane"
 ## "Fanconi anaemia nuclear complex"
 ## "cyclin-dependent protein kinase holoenzyme complex"
 ## "COPII-coated ER to Golgi transport vesicle"
 ## "catenin complex"
 ## "spindle pole centrosome"
 ## "endosome"
 ## "axon terminus"
 ## "cholinergic synapse"
 ## "myosin II complex"
 ## "SMAD protein complex"
 ## "MHC class II protein complex"
 ## "photoreceptor outer segment"
 ## "nuclear inner membrane"
 ## "bicellular tight junction"
 ## "muscle myosin complex"
 ## "alpha DNA polymerase:primase complex"
 ## "cytosolic ribosome"
 ## "chromosome, telomeric region"
 ## "meiotic cohesin complex"
 ## "neuron projection"
 ## "non-motile cilium"
 ## "gamma-tubulin ring complex"
 ## "clathrin-coated endocytic vesicle membrane"
 ## "focal adhesion"
 ## "AP-2 adaptor complex"
 ## "condensed chromosome, centromeric region"
 ## "transcription elongation factor complex"
 ## "spectrin"
 ## "beta-catenin-TCF complex"
 ## "PML body"

"telomerase holoenzyme complex"
 ## "mRNA cleavage factor complex"
 ## "paraspeckles"
 ## "transcriptional preinitiation complex"
 ## "mRNA cleavage and polyadenylation specificity factor complex"
 ## "CRD-mediated mRNA stability complex"
 ## "photoreceptor outer segment membrane"
 ## "basement membrane"
 ## "intracellular membrane-bounded organelle"
 ## "dopaminergic synapse"
 ## "U2-type prespliceosome"
 ## "chromocenter"
 ## "mast cell granule"
 ## "lateral element"
 ## "Sin3-type complex"
 ## "dynactin complex"
 ## "cytoplasmic dynein complex"
 ## "nuclear heterochromatin"
 ## "pericentric heterochromatin"
 ## "immunoglobulin complex, circulating"
 ## "spindle"
 ## "intrinsic component of plasma membrane"
 ## "pICln-Sm protein complex"
 ## "clathrin-coated vesicle membrane"
 ## "cell"
 ## "A band"
 ## "actomyosin"
 ## "methylosome"
 ## "commitment complex"
 ## "mitotic spindle midzone"
 ## "dendrite"
 ## "cornified envelope"
 ## "cell-cell adherens junction"
 ## "cell junction"
 ## "U7 snRNP"
 ## "DNA replication factor A complex"
 ## "cohesin complex"
 ## "spindle midzone"
 ## "Cajal body"
 ## "U2-type precatalytic spliceosome"
 ## "U4 snRNP"
 ## "SCF ubiquitin ligase complex"
 ## "endoplasmic reticulum lumen"
 ## "Sin3 complex"
 ## "Golgi transport complex"
 ## "histone deacetylase complex"
 ## "fibrillar center"
 ## "ciliary membrane"
 ## "dendritic spine"
 ## "SNARE complex"
 ## "ER to Golgi transport vesicle membrane"
 ## "mitotic spindle pole"
 ## "glutamatergic synapse"
 ## "histone methyltransferase complex"

```

##      "basolateral plasma membrane"
##      "nuclear pore outer ring"
##      "npBAF complex"
##      "microtubule organizing center"
##      "RNA polymerase II transcription factor complex"
##      "histone acetyltransferase complex"
##      "small ribosomal subunit"
##      "kinesin complex"
##      "nuclear chromatin"
##      "receptor complex"
##      "SMN-Sm protein complex"
##      "nBAF complex"
##      "spindle microtubule"
##      "U4/U6 x U5 tri-snRNP complex"
##      "protein-DNA complex"
##      "cell cortex"
##      "ciliary tip"
##      "keratin filament"
##      "midbody"
##      "photoreceptor disc membrane"
##      "chromosome, centromeric region"
##      "mediator complex"
##      "cyclin/CDK positive transcription elongation factor complex"
##      "Golgi lumen"
##      "nuclear chromosome, telomeric region"
##      "U5 snRNP"
##      "cell surface"
##      "integral component of postsynaptic density membrane"
##      "postsynaptic density"
##      "NuRD complex"
##      "SWI/SNF complex"
##      "nuclear envelope"
##      "integral component of presynaptic membrane"
##      "U1 snRNP"
##      "spindle pole"
##      "integral component of postsynaptic membrane"
##      "presynaptic membrane"
##      "collagen-containing extracellular matrix"
##      "U2 snRNP"
##      "external side of plasma membrane"
##      "U12-type spliceosomal complex"
##      "exon-exon junction complex"
##      "RNA polymerase II, core complex"
##      "small nuclear ribonucleoprotein complex"
##      "nuclear matrix"
##      "ciliary basal body"
##      "chromatin"
##      "nuclear body"
##      "cell-cell junction"
##      "heterotrimeric G-protein complex"
##      "condensed chromosome kinetochore"
##      "polysomal ribosome"
##      "transcription factor complex"
##      "cytosolic small ribosomal subunit"

```

```

##      "chromosome"
##      "intracellular"
##      "kinetochore"
##      "U2-type catalytic step 2 spliceosome"
##      "cytosolic large ribosomal subunit"
##      "nuclear speck"
##      "centrosome"
##      "spliceosomal complex"
##      "nucleus"
##      "nucleolus"
##      "catalytic step 2 spliceosome"
##      "nucleoplasm"
##      "plasma membrane"
##      "integral component of plasma membrane"
##
## cc.enriched.terms "zscore"  "obs"    "mean"   "std"
##                  "134.231" "1450"   "97.41"  "10.077"
##                  "122.28"  "3629"   "654.09" "24.329"
##                  "82.884"  "6522"   "2576.76" "47.599"
##                  "60.167"  "2229"   "769.6"  "24.256"
##                  "58.068"  "361"    "30.69"  "5.688"
##                  "42.319"  "56"     "2.2"    "1.271"
##                  "40.056"  "152"    "12.76"  "3.476"
##                  "39.578"  "188"    "21.6"   "4.204"
##                  "38.489"  "85"     "4.6"    "2.089"
##                  "36.287"  "576"    "150.18" "11.735"
##                  "32.845"  "483"    "117.3"  "11.134"
##                  "32.76"   "504"    "131.34" "11.375"
##                  "28.78"   "30"     "1.22"   "0.938"
##                  "28.608"  "67"     "5.15"   "2.162"
##                  "23.301"  "137"    "19.74"  "5.032"
##                  "21.947"  "1939"   "1045.47" "40.714"
##                  "21.364"  "265"    "77.92"  "8.757"
##                  "20.647"  "229"    "59.2"   "8.224"
##                  "20.453"  "70"     "8.63"   "3.001"
##                  "20.281"  "121"    "22.11"  "4.876"
##                  "19.452"  "177"    "49.92"  "6.533"
##                  "19.407"  "122"    "28.17"  "4.835"
##                  "18.693"  "307"    "131"    "9.415"
##                  "17.872"  "46"     "7.1"    "2.177"
##                  "17.681"  "109"    "21.82"  "4.931"
##                  "16.429"  "30"     "2.68"   "1.663"
##                  "16.405"  "60"     "9.1"    "3.103"
##                  "16.359"  "50"     "5.84"   "2.699"
##                  "16.159"  "1284"   "808.95" "29.398"
##                  "15.939"  "379"    "172.66" "12.945"
##                  "15.359"  "40"     "5.12"   "2.271"
##                  "15.217"  "1101"   "699.12" "26.41"
##                  "15.173"  "138"    "43.8"   "6.208"
##                  "14.748"  "16"     "1.17"   "1.006"
##                  "14.622"  "174"    "60.91"  "7.734"
##                  "14.429"  "59"     "11.1"   "3.32"
##                  "14.191"  "120"    "36.88"  "5.857"
##                  "14.033"  "7763"   "6220.31" "109.932"

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##	"13.032"	"56"	"10.87"	"3.463"
##	"12.328"	"15"	"1.13"	"1.125"
##	"12.26"	"50"	"10.9"	"3.189"
##	"11.87"	"398"	"220.65"	"14.941"
##	"11.794"	"557"	"359.63"	"16.735"
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##	"11.289"	"156"	"68.94"	"7.712"
##	"11.22"	"52"	"14.18"	"3.371"
##	"10.936"	"38"	"8.21"	"2.724"
##	"10.889"	"32"	"6.42"	"2.349"
##	"10.753"	"40"	"9.49"	"2.837"
##	"10.551"	"216"	"105.7"	"10.454"
##	"10.39"	"37"	"8.54"	"2.739"
##	"9.73"	"11"	"1.27"	"0.993"
##	"9.72"	"133"	"57.3"	"7.788"
##	"9.715"	"760"	"563.57"	"20.22"
##	"9.673"	"89"	"37.23"	"5.352"
##	"9.651"	"767"	"536"	"23.936"
##	"9.604"	"90"	"38.37"	"5.376"
##	"9.601"	"762"	"521.52"	"25.048"
##	"9.553"	"264"	"159.27"	"10.964"
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##	"9.49"	"26"	"5.58"	"2.152"
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##	"9.321"	"154"	"79.44"	"7.999"
##	"9.214"	"42"	"12.11"	"3.244"
##	"9.063"	"92"	"37.08"	"6.06"
##	"9.055"	"72"	"22.96"	"5.416"
##	"8.892"	"129"	"60.92"	"7.656"
##	"8.722"	"220"	"118.91"	"11.59"
##	"8.559"	"259"	"149.22"	"12.826"
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##	"8.34"	"9"	"0.66"	"0.781"
##	"8.326"	"94"	"40.67"	"6.406"
##	"8.28"	"128"	"68.65"	"7.168"
##	"8.272"	"209"	"126.46"	"9.978"
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##	"8.137"	"201"	"121.39"	"9.783"
##	"8.113"	"47"	"14"	"4.068"
##	"7.897"	"50"	"19.42"	"3.872"
##	"7.894"	"19"	"4.13"	"1.884"
##	"7.727"	"92"	"44.61"	"6.133"
##	"7.557"	"107"	"46.27"	"8.036"
##	"7.453"	"234"	"147.3"	"11.633"
##	"7.406"	"11"	"1.84"	"1.237"
##	"7.38"	"8"	"0.62"	"0.678"
##	"7.342"	"52"	"19.28"	"4.456"
##	"7.281"	"533"	"390.87"	"19.52"
##	"7.12"	"8"	"0.88"	"0.795"
##	"7.041"	"344"	"240.53"	"14.695"

##	"6.961"	"69"	"28.95"	"5.753"
##	"6.884"	"18"	"4.75"	"1.925"
##	"6.876"	"59"	"24.08"	"5.079"
##	"6.719"	"721"	"559.94"	"23.969"
##	"6.664"	"21"	"5.94"	"2.26"
##	"6.631"	"8"	"1.12"	"1.037"
##	"6.495"	"38"	"14.13"	"3.675"
##	"6.459"	"146"	"94.75"	"7.935"
##	"6.355"	"97"	"50.15"	"7.372"
##	"6.29"	"21"	"6.58"	"2.293"
##	"6.199"	"129"	"75.03"	"8.707"
##	"6.152"	"52"	"21.11"	"5.021"
##	"6.086"	"15"	"3.03"	"1.967"
##	"6.048"	"14"	"3.25"	"1.777"
##	"6.028"	"1178"	"1009.31"	"27.985"
##	"6.019"	"387"	"287.03"	"16.609"
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##	"5.833"	"64"	"31.39"	"5.59"
##	"5.81"	"6"	"0.19"	"0.419"
##	"5.477"	"8"	"1.69"	"1.152"
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##	"5.422"	"466"	"371.52"	"17.426"
##	"5.298"	"53"	"26.96"	"4.915"
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##	"5.25"	"633"	"524.31"	"20.702"
##	"5.137"	"122"	"73.37"	"9.467"
##	"5.096"	"11"	"2.94"	"1.582"
##	"5.079"	"91"	"57.92"	"6.513"
##	"5.047"	"38"	"17.49"	"4.064"
##	"5.046"	"64"	"36.92"	"5.367"
##	"4.993"	"21"	"7.19"	"2.766"
##	"4.887"	"1664"	"1505.75"	"32.383"
##	"4.875"	"125"	"81.26"	"8.973"
##	"4.874"	"106"	"70.55"	"7.273"
##	"4.845"	"160"	"115.37"	"9.212"
##	"4.842"	"10"	"2.24"	"1.603"
##	"4.765"	"48"	"25.37"	"4.75"
##	"4.732"	"157"	"117.44"	"8.361"
##	"4.666"	"39"	"20.8"	"3.9"
##	"4.555"	"84"	"51.1"	"7.223"
##	"4.543"	"19"	"8.26"	"2.364"
##	"4.526"	"53"	"30.33"	"5.009"
##	"4.523"	"52"	"29.2"	"5.041"
##	"4.419"	"15"	"4.91"	"2.283"
##	"4.418"	"14"	"4.66"	"2.114"
##	"4.383"	"31"	"14.34"	"3.801"
##	"4.338"	"635"	"521.86"	"26.083"
##	"4.332"	"66"	"42.35"	"5.459"
##	"4.29"	"22"	"10.26"	"2.736"
##	"4.279"	"17"	"6.34"	"2.491"
##	"4.278"	"17"	"6.14"	"2.539"
##	"4.236"	"171"	"124.1"	"11.07"
##	"4.188"	"303"	"237.14"	"15.727"
##	"4.11"	"90"	"57.72"	"7.854"

##	"4.039"	"19"	"8.11"	"2.696"
##	"4.012"	"68"	"41.86"	"6.515"
##	"4.004"	"82"	"55.03"	"6.735"
##	"3.993"	"38"	"19.95"	"4.52"
##	"3.989"	"140"	"96.22"	"10.975"
##	"3.954"	"76"	"47.83"	"7.124"
##	"3.881"	"227"	"178.32"	"12.542"
##	"3.837"	"47"	"28.37"	"4.855"
##	"3.819"	"76"	"50.29"	"6.732"
##	"3.812"	"22"	"9.84"	"3.19"
##	"3.81"	"4"	"0.19"	"0.443"
##	"3.806"	"83"	"55.9"	"7.12"
##	"3.765"	"5"	"1.14"	"1.025"
##	"3.684"	"50"	"31.52"	"5.016"
##	"3.683"	"18"	"7.61"	"2.821"
##	"3.569"	"46"	"27.11"	"5.293"
##	"3.56"	"64"	"42.71"	"5.98"
##	"3.548"	"34"	"19.46"	"4.098"
##	"3.516"	"212"	"166.13"	"13.046"
##	"3.497"	"37"	"19.94"	"4.878"
##	"3.495"	"584"	"507.98"	"21.753"
##	"3.491"	"58"	"38.12"	"5.695"
##	"3.435"	"30"	"16.02"	"4.07"
##	"3.432"	"42"	"26.1"	"4.633"
##	"3.378"	"507"	"451.42"	"16.452"
##	"3.37"	"4"	"0.63"	"0.872"
##	"3.364"	"83"	"55.4"	"8.204"
##	"3.352"	"9"	"3.93"	"1.513"
##	"3.352"	"22"	"11.3"	"3.192"
##	"3.351"	"33"	"18.39"	"4.36"
##	"3.35"	"8"	"2.59"	"1.615"
##	"3.304"	"18"	"8.33"	"2.927"
##	"3.2"	"14"	"6.06"	"2.482"
##	"3.134"	"71"	"51.69"	"6.161"
##	"3.086"	"125"	"93.38"	"10.246"
##	"3.076"	"662"	"578.46"	"27.161"
##	"3.059"	"154"	"120.34"	"11.004"
##	"3.056"	"40"	"26.88"	"4.293"
##	"3.039"	"155"	"121.49"	"11.027"
##	"2.988"	"67"	"47.48"	"6.533"
##	"2.981"	"21"	"11.85"	"3.069"
##	"2.881"	"5"	"1.49"	"1.219"
##	"2.881"	"5"	"1.49"	"1.219"
##	"2.87"	"4"	"1.13"	"0.991"
##	"2.849"	"43"	"28.16"	"5.208"
##	"2.833"	"18"	"9.55"	"2.983"
##	"2.762"	"82"	"61.09"	"7.571"
##	"2.761"	"24"	"14.29"	"3.517"
##	"2.752"	"61"	"43.95"	"6.194"
##	"2.738"	"70"	"51.99"	"6.577"
##	"2.725"	"38"	"25.52"	"4.58"
##	"2.673"	"94"	"74.28"	"7.379"
##	"2.661"	"27"	"16.74"	"3.855"
##	"2.63"	"3"	"0.37"	"0.63"

##	"2.608"	"70"	"51.13"	"7.234"
##	"2.592"	"241"	"203.92"	"14.305"
##	"2.59"	"3"	"0.41"	"0.621"
##	"2.567"	"11"	"5.56"	"2.119"
##	"2.523"	"28"	"17"	"4.36"
##	"2.52"	"46"	"31.67"	"5.685"
##	"2.503"	"31"	"20.74"	"4.099"
##	"2.48"	"414"	"360.94"	"21.394"
##	"2.477"	"36"	"25.21"	"4.356"
##	"2.43"	"43"	"30.73"	"5.049"
##	"2.382"	"147"	"121.63"	"10.651"
##	"2.381"	"28"	"18.3"	"4.074"
##	"2.362"	"176"	"152.21"	"10.074"
##	"2.334"	"242"	"208.02"	"14.562"
##	"2.331"	"4"	"1.41"	"1.111"
##	"2.319"	"104"	"81.75"	"9.593"
##	"2.317"	"22"	"13.28"	"3.763"
##	"2.311"	"18"	"10.3"	"3.332"
##	"2.308"	"6"	"2.59"	"1.478"
##	"2.27"	"69"	"52.21"	"7.397"
##	"2.26"	"12"	"6.86"	"2.274"
##	"2.236"	"20"	"12.47"	"3.368"
##	"2.216"	"121"	"102.47"	"8.361"
##	"2.214"	"8"	"3.75"	"1.919"
##	"2.187"	"22"	"14.24"	"3.548"
##	"2.185"	"13145"	"12911.71"	"106.778"
##	"2.166"	"44"	"31.74"	"5.66"
##	"2.165"	"66"	"50.38"	"7.214"
##	"2.164"	"21"	"13.52"	"3.457"
##	"2.153"	"192"	"166.33"	"11.925"
##	"2.136"	"20"	"12.94"	"3.305"
##	"2.136"	"20"	"12.94"	"3.305"
##	"2.135"	"24"	"16"	"3.747"
##	"2.127"	"230"	"202.17"	"13.084"
##	"2.107"	"39"	"27.93"	"5.254"
##	"2.096"	"6"	"2.56"	"1.641"
##	"2.056"	"18"	"11.36"	"3.23"
##	"2.048"	"19"	"12.22"	"3.311"
##	"2.037"	"36"	"25.57"	"5.121"
##	"2.029"	"52"	"40.1"	"5.866"
##	"2.02"	"52"	"40.19"	"5.846"
##	"2.008"	"56"	"43.07"	"6.439"
##	"2.007"	"117"	"101.97"	"7.489"
##	"1.99"	"34"	"23.09"	"5.483"
##	"1.99"	"34"	"23.09"	"5.483"
##	"1.99"	"34"	"23.09"	"5.483"
##	"1.966"	"63"	"49.42"	"6.908"
##	"1.953"	"152"	"131.31"	"10.591"
##	"1.93"	"2"	"0.07"	"0.256"
##	"1.92"	"53"	"42.2"	"5.626"
##	"1.88"	"56"	"43.3"	"6.756"
##	"1.879"	"3"	"1.08"	"1.022"
##	"1.876"	"70"	"55.92"	"7.506"
##	"1.874"	"28"	"19.76"	"4.397"

##	"1.87"	"177"	"152.38"	"13.165"
##	"1.806"	"44"	"34.05"	"5.509"
##	"1.763"	"25"	"17.2"	"4.424"
##	"1.757"	"52"	"41.31"	"6.085"
##	"1.755"	"37"	"28.59"	"4.791"
##	"1.752"	"14"	"8.64"	"3.06"
##	"1.746"	"130"	"111.72"	"10.472"
##	"1.745"	"15"	"9.6"	"3.094"
##	"1.743"	"164"	"143.42"	"11.81"
##	"1.731"	"8"	"4.03"	"2.294"
##	"1.729"	"46"	"35.52"	"6.063"
##	"1.72"	"53"	"42.14"	"6.315"
##	"1.708"	"34"	"26.82"	"4.203"
##	"1.701"	"4"	"1.87"	"1.253"
##	"1.69"	"1428"	"1375.37"	"31.135"
##	"1.687"	"732"	"677.35"	"32.391"
##	"1.653"	"20"	"14.08"	"3.581"
##	"1.64"	"2"	"0.36"	"0.628"
##	"1.637"	"5"	"2.39"	"1.595"
##	"1.616"	"10"	"6.21"	"2.345"
##	"1.616"	"225"	"204.87"	"12.455"
##	"1.612"	"6"	"2.99"	"1.867"
##	"1.605"	"15"	"9.96"	"3.14"
##	"1.604"	"8"	"4.62"	"2.107"
##	"1.557"	"7"	"4.28"	"1.747"
##	"1.544"	"90"	"76.2"	"8.937"
##	"1.534"	"105"	"90.47"	"9.47"
##	"1.533"	"190"	"169.33"	"13.48"
##	"1.528"	"48"	"38.72"	"6.074"
##	"1.494"	"119"	"103.9"	"10.109"
##	"1.474"	"75"	"63.97"	"7.481"
##	"1.467"	"20"	"14.84"	"3.518"
##	"1.451"	"28"	"20.77"	"4.983"
##	"1.442"	"109"	"95.52"	"9.348"
##	"1.435"	"16"	"11.54"	"3.109"
##	"1.416"	"28"	"21.59"	"4.526"
##	"1.41"	"2"	"0.59"	"0.698"
##	"1.368"	"90"	"77.83"	"8.895"
##	"1.322"	"62"	"52.83"	"6.936"
##	"1.309"	"37"	"29.71"	"5.571"
##	"1.3"	"131"	"117.34"	"10.51"
##	"1.282"	"109"	"97.91"	"8.653"
##	"1.279"	"42"	"34.3"	"6.021"
##	"1.278"	"44"	"36.92"	"5.541"
##	"1.251"	"7"	"4.41"	"2.07"
##	"1.234"	"15"	"11.23"	"3.055"
##	"1.218"	"10"	"6.67"	"2.734"
##	"1.215"	"3"	"1.53"	"1.21"
##	"1.2"	"2"	"0.8"	"0.865"
##	"1.197"	"55"	"46.8"	"6.85"
##	"1.193"	"47"	"39.75"	"6.079"
##	"1.187"	"51"	"43.69"	"6.157"
##	"1.184"	"43"	"36.17"	"5.767"
##	"1.159"	"35"	"29.61"	"4.649"

##	"1.156"	"6"	"3.78"	"1.921"
##	"1.154"	"29"	"23.54"	"4.73"
##	"1.143"	"56"	"48.79"	"6.309"
##	"1.096"	"11"	"7.65"	"3.056"
##	"1.085"	"4"	"2.47"	"1.41"
##	"1.073"	"30"	"24.38"	"5.235"
##	"1.066"	"19"	"14.64"	"4.091"
##	"1.052"	"11"	"7.94"	"2.909"
##	"1.044"	"88"	"80.13"	"7.535"
##	"1.012"	"45"	"39.15"	"5.781"
##	"1.004"	"54"	"47.32"	"6.656"
##	"0.99"	"3"	"1.69"	"1.323"
##	"0.99"	"3"	"1.69"	"1.323"
##	"0.989"	"15"	"11.63"	"3.407"
##	"0.97"	"2"	"1.03"	"0.958"
##	"0.966"	"3"	"1.71"	"1.336"
##	"0.955"	"15"	"11.37"	"3.8"
##	"0.941"	"64"	"57.11"	"7.319"
##	"0.924"	"2"	"1.05"	"1.029"
##	"0.916"	"552"	"529.89"	"24.141"
##	"0.899"	"74"	"66.97"	"7.818"
##	"0.893"	"5"	"3.54"	"1.636"
##	"0.889"	"5"	"3.43"	"1.765"
##	"0.884"	"9258"	"9172.62"	"96.59"
##	"0.881"	"3"	"1.85"	"1.306"
##	"0.877"	"85"	"77.92"	"8.078"
##	"0.872"	"10"	"7.42"	"2.958"
##	"0.863"	"119"	"109.37"	"11.163"
##	"0.86"	"1"	"0.14"	"0.349"
##	"0.86"	"1"	"0.14"	"0.377"
##	"0.853"	"13"	"10.28"	"3.188"
##	"0.84"	"1"	"0.16"	"0.395"
##	"0.838"	"51"	"45.19"	"6.929"
##	"0.809"	"666"	"644.35"	"26.769"
##	"0.808"	"9"	"7.08"	"2.377"
##	"0.797"	"2"	"1.18"	"1.029"
##	"0.794"	"11"	"8.76"	"2.822"
##	"0.776"	"31"	"27.04"	"5.103"
##	"0.76"	"6"	"4.37"	"2.145"
##	"0.745"	"5275"	"5220.25"	"73.504"
##	"0.74"	"28"	"25"	"4.055"
##	"0.739"	"2"	"1.26"	"1.001"
##	"0.73"	"218"	"207.2"	"14.8"
##	"0.729"	"30"	"26.53"	"4.762"
##	"0.728"	"29"	"26.05"	"4.051"
##	"0.72"	"47"	"42.84"	"5.78"
##	"0.716"	"42"	"37.8"	"5.864"
##	"0.7"	"17"	"14.42"	"3.685"
##	"0.655"	"4"	"2.95"	"1.604"
##	"0.634"	"31"	"27.92"	"4.859"
##	"0.614"	"3"	"2.04"	"1.563"
##	"0.582"	"12"	"10.22"	"3.06"
##	"0.581"	"182"	"174.49"	"12.924"
##	"0.58"	"1"	"0.42"	"0.654"

##	"0.576"	"20"	"17.48"	"4.373"
##	"0.571"	"48"	"44.26"	"6.547"
##	"0.553"	"7"	"5.66"	"2.421"
##	"0.544"	"3"	"2.17"	"1.525"
##	"0.527"	"4"	"3.13"	"1.649"
##	"0.517"	"13"	"11.39"	"3.114"
##	"0.505"	"357"	"347.49"	"18.826"
##	"0.498"	"175"	"168.69"	"12.678"
##	"0.495"	"4"	"3.11"	"1.797"
##	"0.473"	"4"	"3.11"	"1.88"
##	"0.467"	"181"	"174.71"	"13.477"
##	"0.463"	"2"	"1.4"	"1.295"
##	"0.463"	"3"	"2.2"	"1.729"
##	"0.416"	"91"	"87.41"	"8.64"
##	"0.399"	"5"	"4.19"	"2.029"
##	"0.39"	"1"	"0.61"	"0.777"
##	"0.388"	"11"	"9.74"	"3.246"
##	"0.379"	"22"	"20.54"	"3.854"
##	"0.37"	"1"	"0.63"	"0.787"
##	"0.366"	"28"	"26.51"	"4.076"
##	"0.359"	"39"	"36.77"	"6.216"
##	"0.343"	"16"	"14.72"	"3.736"
##	"0.315"	"29"	"27.66"	"4.26"
##	"0.315"	"6"	"5.36"	"2.033"
##	"0.312"	"7"	"6.31"	"2.214"
##	"0.312"	"7"	"6.31"	"2.214"
##	"0.305"	"15"	"13.96"	"3.411"
##	"0.294"	"43"	"41.19"	"6.148"
##	"0.29"	"1"	"0.71"	"0.844"
##	"0.281"	"325"	"320"	"17.801"
##	"0.279"	"119"	"116.36"	"9.456"
##	"0.263"	"41"	"39.31"	"6.425"
##	"0.251"	"6"	"5.4"	"2.387"
##	"0.248"	"122"	"119.18"	"11.367"
##	"0.24"	"1"	"0.76"	"0.922"
##	"0.24"	"1"	"0.76"	"0.922"
##	"0.239"	"17"	"15.95"	"4.402"
##	"0.232"	"182"	"178.73"	"14.08"
##	"0.222"	"104"	"101.93"	"9.343"
##	"0.188"	"3"	"2.69"	"1.65"
##	"0.173"	"18"	"17.29"	"4.115"
##	"0.169"	"26"	"25.13"	"5.152"
##	"0.164"	"20"	"19.33"	"4.09"
##	"0.164"	"3"	"2.75"	"1.52"
##	"0.154"	"3"	"2.78"	"1.425"
##	"0.141"	"5"	"4.71"	"2.061"
##	"0.125"	"263"	"261.4"	"12.809"
##	"0.11"	"1"	"0.89"	"0.875"
##	"0.1"	"1"	"0.9"	"0.859"
##	"0.099"	"14"	"13.64"	"3.634"
##	"0.096"	"5"	"4.79"	"2.189"
##	"0.083"	"12"	"11.72"	"3.373"
##	"0.078"	"11"	"10.73"	"3.44"
##	"0.067"	"13"	"12.77"	"3.437"

##	"0.066"	"33"	"32.61"	"5.883"
##	"0.064"	"8"	"7.83"	"2.64"
##	"0.049"	"21"	"20.77"	"4.686"
##	"0.044"	"2"	"1.94"	"1.362"
##	"0.029"	"871"	"870.15"	"28.913"
##	"0.02"	"6"	"5.95"	"2.476"
##	"0.02"	"34"	"33.87"	"6.348"
##	"0.012"	"20"	"19.95"	"4.208"
##	"0.011"	"4"	"3.98"	"1.758"
##	"0.005"	"3"	"2.99"	"1.951"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"-0.006"	"92"	"92.06"	"9.268"
##	"-0.01"	"0"	"0.01"	"0.1"
##	"-0.01"	"8"	"8.03"	"2.921"
##	"-0.01"	"0"	"0.01"	"0.1"
##	"-0.01"	"0"	"0.01"	"0.1"
##	"-0.01"	"0"	"0.01"	"0.1"
##	"-0.01"	"0"	"0.01"	"0.1"
##	"-0.01"	"0"	"0.01"	"0.1"
##	"-0.01"	"0"	"0.01"	"0.1"
##	"-0.01"	"0"	"0.01"	"0.1"
##	"-0.01"	"0"	"0.01"	"0.1"
##	"-0.015"	"7"	"7.04"	"2.693"
##	"-0.016"	"41"	"41.09"	"5.777"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"
##	"-0.02"	"0"	"0.02"	"0.141"

##	"-0.03"	"0"	"0.03"	"0.171"
##	"-0.03"	"0"	"0.03"	"0.171"
##	"-0.03"	"0"	"0.03"	"0.171"
##	"-0.03"	"0"	"0.03"	"0.171"
##	"-0.03"	"0"	"0.03"	"0.171"
##	"-0.037"	"137"	"137.47"	"12.635"
##	"-0.04"	"0"	"0.04"	"0.197"
##	"-0.04"	"0"	"0.04"	"0.197"
##	"-0.04"	"0"	"0.04"	"0.197"
##	"-0.05"	"0"	"0.05"	"0.219"
##	"-0.05"	"0"	"0.05"	"0.219"
##	"-0.053"	"6"	"6.12"	"2.28"
##	"-0.055"	"5"	"5.13"	"2.347"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.06"	"0"	"0.06"	"0.239"
##	"-0.065"	"9"	"9.18"	"2.765"
##	"-0.07"	"0"	"0.07"	"0.256"
##	"-0.071"	"1464"	"1466.53"	"35.839"
##	"-0.075"	"26"	"26.36"	"4.775"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.085"	"37"	"37.47"	"5.507"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.102"	"4"	"4.19"	"1.862"
##	"-0.103"	"3"	"3.16"	"1.549"
##	"-0.103"	"3"	"3.16"	"1.549"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"1"	"1.12"	"0.935"
##	"-0.124"	"9"	"9.34"	"2.742"
##	"-0.127"	"11"	"11.44"	"3.471"
##	"-0.127"	"11"	"11.44"	"3.471"
##	"-0.13"	"0"	"0.13"	"0.367"

##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.403"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.144"	"65"	"66.14"	"7.891"
##	"-0.15"	"0"	"0.15"	"0.458"
##	"-0.154"	"1"	"1.16"	"1.042"
##	"-0.16"	"0"	"0.16"	"0.465"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.451"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.181"	"3"	"3.32"	"1.763"
##	"-0.19"	"0"	"0.19"	"0.465"
##	"-0.19"	"0"	"0.19"	"0.443"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.195"	"2"	"2.31"	"1.594"
##	"-0.2"	"0"	"0.2"	"0.449"
##	"-0.2"	"0"	"0.2"	"0.426"
##	"-0.2"	"0"	"0.2"	"0.492"
##	"-0.201"	"45"	"46.5"	"7.47"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.409"
##	"-0.214"	"2"	"2.31"	"1.447"
##	"-0.217"	"70"	"71.85"	"8.51"
##	"-0.218"	"51"	"52.51"	"6.929"
##	"-0.218"	"3"	"3.38"	"1.739"
##	"-0.22"	"0"	"0.22"	"0.484"
##	"-0.22"	"0"	"0.22"	"0.462"
##	"-0.222"	"5"	"5.53"	"2.385"
##	"-0.227"	"24"	"25.13"	"4.986"
##	"-0.23"	"0"	"0.23"	"0.51"
##	"-0.237"	"14"	"14.82"	"3.454"
##	"-0.24"	"0"	"0.24"	"0.474"
##	"-0.24"	"0"	"0.24"	"0.495"
##	"-0.24"	"0"	"0.24"	"0.534"
##	"-0.24"	"0"	"0.24"	"0.495"
##	"-0.248"	"155"	"158.11"	"12.516"
##	"-0.25"	"0"	"0.25"	"0.458"
##	"-0.25"	"0"	"0.25"	"0.575"
##	"-0.25"	"0"	"0.25"	"0.458"
##	"-0.251"	"16"	"17.09"	"4.342"
##	"-0.252"	"1"	"1.28"	"1.111"
##	"-0.252"	"25"	"26.33"	"5.271"
##	"-0.254"	"4"	"4.47"	"1.85"
##	"-0.255"	"28"	"29.21"	"4.753"
##	"-0.256"	"4"	"4.5"	"1.951"
##	"-0.264"	"1"	"1.27"	"1.024"

##	"-0.268"	"3"	"3.48"	"1.789"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.489"
##	"-0.28"	"4"	"4.54"	"1.93"
##	"-0.28"	"0"	"0.28"	"0.57"
##	"-0.289"	"1"	"1.35"	"1.209"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.303"	"3"	"3.54"	"1.783"
##	"-0.31"	"0"	"0.31"	"0.563"
##	"-0.315"	"31"	"32.75"	"5.56"
##	"-0.33"	"0"	"0.33"	"0.551"
##	"-0.33"	"0"	"0.33"	"0.57"
##	"-0.331"	"4"	"4.64"	"1.931"
##	"-0.336"	"1"	"1.43"	"1.281"
##	"-0.34"	"0"	"0.34"	"0.555"
##	"-0.34"	"0"	"0.34"	"0.517"
##	"-0.35"	"0"	"0.35"	"0.592"
##	"-0.35"	"1"	"1.35"	"0.978"
##	"-0.35"	"0"	"0.35"	"0.557"
##	"-0.35"	"0"	"0.35"	"0.539"
##	"-0.356"	"66"	"68.86"	"8.037"
##	"-0.36"	"5"	"5.82"	"2.28"
##	"-0.36"	"0"	"0.36"	"0.595"
##	"-0.361"	"1"	"1.38"	"1.052"
##	"-0.373"	"4"	"4.85"	"2.276"
##	"-0.374"	"2"	"2.67"	"1.793"
##	"-0.377"	"2"	"2.64"	"1.697"
##	"-0.378"	"12"	"13.34"	"3.543"
##	"-0.38"	"0"	"0.38"	"0.599"
##	"-0.39"	"0"	"0.39"	"0.65"
##	"-0.39"	"0"	"0.39"	"0.65"
##	"-0.392"	"4"	"4.91"	"2.319"
##	"-0.397"	"4"	"4.92"	"2.317"
##	"-0.4"	"0"	"0.4"	"0.586"
##	"-0.4"	"0"	"0.4"	"0.586"
##	"-0.41"	"0"	"0.41"	"0.621"
##	"-0.41"	"0"	"0.41"	"0.637"
##	"-0.414"	"6"	"7.04"	"2.51"
##	"-0.42"	"0"	"0.42"	"0.669"
##	"-0.434"	"23"	"24.74"	"4.009"
##	"-0.435"	"13"	"14.66"	"3.814"
##	"-0.437"	"7"	"8.21"	"2.768"
##	"-0.44"	"1"	"1.55"	"1.25"
##	"-0.44"	"0"	"0.44"	"0.729"
##	"-0.442"	"6"	"7.24"	"2.804"

##	"-0.45"	"0"	"0.45"	"0.609"
##	"-0.45"	"0"	"0.45"	"0.73"
##	"-0.454"	"1"	"1.53"	"1.167"
##	"-0.456"	"27"	"29.45"	"5.377"
##	"-0.459"	"247"	"254.25"	"15.78"
##	"-0.46"	"0"	"0.46"	"0.626"
##	"-0.46"	"0"	"0.46"	"0.626"
##	"-0.46"	"0"	"0.46"	"0.642"
##	"-0.46"	"0"	"0.46"	"0.61"
##	"-0.46"	"0"	"0.46"	"0.61"
##	"-0.465"	"2"	"2.73"	"1.569"
##	"-0.467"	"6"	"7.2"	"2.57"
##	"-0.474"	"1"	"1.67"	"1.415"
##	"-0.476"	"1"	"1.72"	"1.511"
##	"-0.476"	"2"	"2.72"	"1.511"
##	"-0.48"	"1"	"1.61"	"1.27"
##	"-0.48"	"0"	"0.48"	"0.689"
##	"-0.48"	"0"	"0.48"	"0.689"
##	"-0.482"	"1"	"1.57"	"1.183"
##	"-0.483"	"592"	"604.02"	"24.864"
##	"-0.495"	"1"	"1.56"	"1.131"
##	"-0.497"	"98"	"102.37"	"8.792"
##	"-0.507"	"3"	"4.03"	"2.032"
##	"-0.51"	"0"	"0.51"	"0.859"
##	"-0.51"	"0"	"0.51"	"0.785"
##	"-0.512"	"47"	"50.43"	"6.696"
##	"-0.519"	"8"	"9.51"	"2.911"
##	"-0.52"	"54"	"57.73"	"7.169"
##	"-0.52"	"0"	"0.52"	"0.785"
##	"-0.52"	"1"	"1.6"	"1.155"
##	"-0.52"	"0"	"0.52"	"0.717"
##	"-0.521"	"105"	"110.4"	"10.365"
##	"-0.53"	"0"	"0.53"	"0.643"
##	"-0.53"	"0"	"0.53"	"0.745"
##	"-0.53"	"0"	"0.53"	"0.745"
##	"-0.54"	"0"	"0.54"	"0.744"
##	"-0.542"	"1"	"1.68"	"1.254"
##	"-0.548"	"3"	"4.21"	"2.208"
##	"-0.553"	"12"	"13.98"	"3.582"
##	"-0.56"	"0"	"0.56"	"0.743"
##	"-0.567"	"2"	"2.82"	"1.445"
##	"-0.58"	"0"	"0.58"	"0.794"
##	"-0.58"	"0"	"0.58"	"0.794"
##	"-0.58"	"0"	"0.58"	"0.699"
##	"-0.58"	"0"	"0.58"	"0.755"
##	"-0.583"	"1"	"1.84"	"1.441"
##	"-0.585"	"1"	"1.77"	"1.317"
##	"-0.586"	"3"	"4.35"	"2.302"
##	"-0.59"	"0"	"0.59"	"0.83"
##	"-0.598"	"1"	"1.66"	"1.103"
##	"-0.6"	"0"	"0.6"	"0.739"
##	"-0.6"	"0"	"0.6"	"0.765"
##	"-0.6"	"0"	"0.6"	"0.791"
##	"-0.6"	"0"	"0.6"	"0.752"

##	"-0.602"	"9"	"11"	"3.321"
##	"-0.602"	"9"	"11"	"3.321"
##	"-0.607"	"192"	"199.99"	"13.171"
##	"-0.61"	"0"	"0.61"	"0.751"
##	"-0.61"	"0"	"0.61"	"0.723"
##	"-0.61"	"0"	"0.61"	"0.764"
##	"-0.61"	"0"	"0.61"	"0.723"
##	"-0.612"	"100"	"106.01"	"9.82"
##	"-0.614"	"1636"	"1661.14"	"40.943"
##	"-0.616"	"4"	"5.4"	"2.274"
##	"-0.618"	"11"	"13.06"	"3.336"
##	"-0.625"	"31"	"34.8"	"6.082"
##	"-0.626"	"74"	"79.18"	"8.275"
##	"-0.63"	"0"	"0.63"	"0.812"
##	"-0.632"	"1"	"1.97"	"1.534"
##	"-0.636"	"3"	"4.35"	"2.124"
##	"-0.636"	"3"	"4.35"	"2.124"
##	"-0.64"	"0"	"0.64"	"0.859"
##	"-0.64"	"0"	"0.64"	"0.785"
##	"-0.64"	"0"	"0.64"	"0.746"
##	"-0.645"	"1"	"1.92"	"1.426"
##	"-0.645"	"1"	"1.92"	"1.426"
##	"-0.645"	"2"	"3.06"	"1.644"
##	"-0.645"	"2"	"3.12"	"1.737"
##	"-0.645"	"1"	"1.92"	"1.426"
##	"-0.65"	"0"	"0.65"	"0.857"
##	"-0.65"	"0"	"0.65"	"0.77"
##	"-0.65"	"0"	"0.65"	"0.77"
##	"-0.65"	"0"	"0.65"	"0.796"
##	"-0.65"	"0"	"0.65"	"0.757"
##	"-0.65"	"0"	"0.65"	"0.77"
##	"-0.65"	"0"	"0.65"	"0.857"
##	"-0.672"	"80"	"86.1"	"9.073"
##	"-0.677"	"23"	"26.64"	"5.38"
##	"-0.683"	"81"	"86.88"	"8.607"
##	"-0.69"	"0"	"0.69"	"0.861"
##	"-0.698"	"1"	"1.84"	"1.204"
##	"-0.698"	"220"	"231.31"	"16.204"
##	"-0.699"	"84"	"90.33"	"9.054"
##	"-0.7"	"0"	"0.7"	"0.772"
##	"-0.702"	"8"	"10.2"	"3.133"
##	"-0.704"	"2"	"3.13"	"1.606"
##	"-0.71"	"1"	"2.08"	"1.522"
##	"-0.71"	"0"	"0.71"	"0.769"
##	"-0.713"	"7"	"9.01"	"2.819"
##	"-0.716"	"1"	"1.92"	"1.285"
##	"-0.72"	"0"	"0.72"	"0.877"
##	"-0.72"	"0"	"0.72"	"0.877"
##	"-0.72"	"0"	"0.72"	"0.866"
##	"-0.721"	"8"	"10.1"	"2.915"
##	"-0.722"	"11"	"13.53"	"3.503"
##	"-0.722"	"16"	"19.45"	"4.781"
##	"-0.73"	"0"	"0.73"	"0.709"
##	"-0.73"	"0"	"0.73"	"0.777"

##	"-0.73"	"0"	"0.73"	"0.863"
##	"-0.73"	"0"	"0.73"	"0.93"
##	"-0.73"	"0"	"0.73"	"0.874"
##	"-0.731"	"1"	"2.15"	"1.572"
##	"-0.735"	"17"	"20.21"	"4.368"
##	"-0.735"	"17"	"20.21"	"4.368"
##	"-0.738"	"1"	"2.09"	"1.478"
##	"-0.74"	"56"	"61.85"	"7.904"
##	"-0.744"	"1"	"2.02"	"1.371"
##	"-0.744"	"1"	"2.02"	"1.371"
##	"-0.749"	"3"	"4.48"	"1.977"
##	"-0.75"	"0"	"0.75"	"0.88"
##	"-0.75"	"0"	"0.75"	"0.783"
##	"-0.754"	"0"	"0.79"	"1.047"
##	"-0.754"	"18"	"20.99"	"3.963"
##	"-0.756"	"303"	"320.42"	"23.038"
##	"-0.757"	"4"	"5.9"	"2.509"
##	"-0.76"	"0"	"0.76"	"0.806"
##	"-0.761"	"87"	"94.58"	"9.958"
##	"-0.764"	"42"	"47.06"	"6.619"
##	"-0.766"	"1"	"1.97"	"1.267"
##	"-0.766"	"1"	"1.97"	"1.267"
##	"-0.767"	"17"	"20.12"	"4.068"
##	"-0.768"	"1"	"2.1"	"1.432"
##	"-0.773"	"4"	"5.75"	"2.262"
##	"-0.78"	"0"	"0.78"	"0.905"
##	"-0.78"	"0"	"0.87"	"1.116"
##	"-0.78"	"0"	"0.78"	"0.917"
##	"-0.782"	"17"	"20.39"	"4.337"
##	"-0.79"	"0"	"0.79"	"0.832"
##	"-0.79"	"0"	"0.79"	"0.902"
##	"-0.79"	"0"	"0.79"	"0.902"
##	"-0.79"	"0"	"0.79"	"0.88"
##	"-0.799"	"1"	"2.09"	"1.364"
##	"-0.8"	"9"	"11.37"	"2.963"
##	"-0.808"	"1"	"2.25"	"1.546"
##	"-0.809"	"92"	"99.94"	"9.815"
##	"-0.81"	"1"	"2.14"	"1.407"
##	"-0.81"	"5"	"6.91"	"2.357"
##	"-0.81"	"0"	"0.81"	"0.849"
##	"-0.816"	"1"	"2.12"	"1.373"
##	"-0.817"	"5"	"7.19"	"2.681"
##	"-0.82"	"0"	"0.82"	"0.881"
##	"-0.826"	"13"	"16.2"	"3.874"
##	"-0.83"	"0"	"0.83"	"0.817"
##	"-0.832"	"189"	"199.78"	"12.954"
##	"-0.839"	"18"	"21.82"	"4.551"
##	"-0.84"	"0"	"0.84"	"0.861"
##	"-0.847"	"79"	"85.83"	"8.06"
##	"-0.847"	"1"	"2.26"	"1.488"
##	"-0.85"	"0"	"0.85"	"0.925"
##	"-0.857"	"3"	"5.08"	"2.427"
##	"-0.858"	"3"	"5.18"	"2.54"
##	"-0.862"	"0"	"0.94"	"1.09"

##	"-0.863"	"1"	"2.21"	"1.402"
##	"-0.864"	"15"	"18.53"	"4.084"
##	"-0.88"	"0"	"0.88"	"0.946"
##	"-0.881"	"1"	"2.16"	"1.316"
##	"-0.882"	"62"	"68.79"	"7.701"
##	"-0.885"	"2"	"3.69"	"1.911"
##	"-0.891"	"28"	"32.78"	"5.367"
##	"-0.892"	"6"	"8.52"	"2.827"
##	"-0.892"	"0"	"1.01"	"1.133"
##	"-0.908"	"2"	"3.7"	"1.872"
##	"-0.91"	"0"	"0.91"	"0.922"
##	"-0.91"	"0"	"0.91"	"0.866"
##	"-0.919"	"1"	"2.42"	"1.545"
##	"-0.927"	"2"	"3.98"	"2.137"
##	"-0.944"	"37"	"43.98"	"7.394"
##	"-0.945"	"2"	"3.73"	"1.83"
##	"-0.947"	"85"	"94.89"	"10.446"
##	"-0.948"	"14"	"18.19"	"4.419"
##	"-0.951"	"1"	"2.34"	"1.409"
##	"-0.952"	"0"	"0.99"	"1.04"
##	"-0.959"	"2"	"3.69"	"1.762"
##	"-0.961"	"85"	"92.78"	"8.094"
##	"-0.965"	"264"	"279.24"	"15.799"
##	"-0.968"	"8"	"10.99"	"3.09"
##	"-0.968"	"1"	"2.41"	"1.457"
##	"-0.97"	"0"	"0.97"	"0.979"
##	"-0.97"	"0"	"0.97"	"0.969"
##	"-0.987"	"2"	"4.41"	"2.442"
##	"-0.989"	"0"	"1.09"	"1.102"
##	"-0.991"	"0"	"1.03"	"1.039"
##	"-0.993"	"0"	"1.05"	"1.058"
##	"-0.994"	"218"	"232.46"	"14.542"
##	"-0.997"	"1"	"2.41"	"1.415"
##	"-0.999"	"4"	"6.97"	"2.973"
##	"-0.999"	"6"	"8.72"	"2.723"
##	"-1.002"	"60"	"68.51"	"8.495"
##	"-1.005"	"1"	"2.56"	"1.553"
##	"-1.007"	"2"	"3.76"	"1.747"
##	"-1.01"	"0"	"1.01"	"0.98"
##	"-1.013"	"1"	"2.98"	"1.954"
##	"-1.013"	"0"	"1.17"	"1.155"
##	"-1.015"	"63"	"70.74"	"7.625"
##	"-1.016"	"7"	"10.18"	"3.131"
##	"-1.017"	"0"	"1.06"	"1.043"
##	"-1.019"	"0"	"1.28"	"1.256"
##	"-1.02"	"0"	"1.02"	"0.974"
##	"-1.021"	"232"	"248.13"	"15.802"
##	"-1.021"	"0"	"1.1"	"1.078"
##	"-1.024"	"76"	"84.63"	"8.426"
##	"-1.024"	"3"	"5.33"	"2.274"
##	"-1.025"	"27"	"32.08"	"4.958"
##	"-1.025"	"4"	"6.21"	"2.157"
##	"-1.027"	"0"	"1.18"	"1.149"
##	"-1.03"	"0"	"1.03"	"1"

##	"-1.03"	"0"	"1.03"	"0.979"
##	"-1.032"	"0"	"1.07"	"1.037"
##	"-1.04"	"25"	"29.97"	"4.777"
##	"-1.041"	"20"	"24.34"	"4.169"
##	"-1.045"	"5"	"8"	"2.871"
##	"-1.047"	"38"	"44.14"	"5.866"
##	"-1.05"	"0"	"1.05"	"0.978"
##	"-1.05"	"0"	"1.05"	"0.968"
##	"-1.05"	"0"	"1.05"	"0.968"
##	"-1.05"	"0"	"1.05"	"0.968"
##	"-1.057"	"7"	"10.05"	"2.886"
##	"-1.058"	"1"	"2.75"	"1.654"
##	"-1.06"	"0"	"1.06"	"0.941"
##	"-1.066"	"4"	"6.86"	"2.682"
##	"-1.067"	"2"	"4.27"	"2.127"
##	"-1.072"	"4"	"6.33"	"2.174"
##	"-1.077"	"79"	"88.51"	"8.831"
##	"-1.077"	"1"	"2.96"	"1.82"
##	"-1.08"	"0"	"1.37"	"1.269"
##	"-1.08"	"0"	"1.37"	"1.269"
##	"-1.082"	"9"	"13.32"	"3.992"
##	"-1.083"	"0"	"1.29"	"1.192"
##	"-1.083"	"13"	"17.97"	"4.589"
##	"-1.084"	"0"	"1.09"	"1.006"
##	"-1.085"	"2"	"4.35"	"2.167"
##	"-1.093"	"2"	"3.91"	"1.747"
##	"-1.094"	"0"	"1.22"	"1.115"
##	"-1.095"	"0"	"1.33"	"1.215"
##	"-1.098"	"11"	"14.63"	"3.305"
##	"-1.1"	"0"	"1.1"	"0.959"
##	"-1.102"	"0"	"1.42"	"1.288"
##	"-1.103"	"102"	"114.31"	"11.162"
##	"-1.106"	"0"	"1.21"	"1.094"
##	"-1.108"	"5"	"8.03"	"2.736"
##	"-1.108"	"5"	"8.03"	"2.736"
##	"-1.108"	"17"	"22.09"	"4.595"
##	"-1.109"	"94"	"105.24"	"10.14"
##	"-1.109"	"0"	"1.23"	"1.109"
##	"-1.11"	"1"	"2.74"	"1.567"
##	"-1.111"	"23"	"29.42"	"5.777"
##	"-1.115"	"33"	"39.42"	"5.758"
##	"-1.117"	"0"	"1.13"	"1.012"
##	"-1.119"	"0"	"1.32"	"1.18"
##	"-1.123"	"0"	"1.42"	"1.265"
##	"-1.123"	"0"	"1.14"	"1.015"
##	"-1.129"	"1"	"2.88"	"1.665"
##	"-1.13"	"0"	"1.13"	"0.928"
##	"-1.138"	"7"	"10.46"	"3.04"
##	"-1.141"	"0"	"1.59"	"1.393"
##	"-1.142"	"50"	"57"	"6.132"
##	"-1.144"	"0"	"1.32"	"1.154"
##	"-1.144"	"0"	"1.32"	"1.154"
##	"-1.152"	"11"	"15.14"	"3.593"
##	"-1.154"	"0"	"1.24"	"1.074"

##	"-1.154"	"0"	"1.7"	"1.474"
##	"-1.155"	"0"	"1.21"	"1.047"
##	"-1.16"	"0"	"1.42"	"1.224"
##	"-1.166"	"62"	"71.46"	"8.111"
##	"-1.166"	"0"	"1.3"	"1.115"
##	"-1.173"	"1"	"2.92"	"1.637"
##	"-1.177"	"2"	"4"	"1.7"
##	"-1.18"	"0"	"1.18"	"0.989"
##	"-1.181"	"1"	"3.16"	"1.83"
##	"-1.186"	"1"	"2.88"	"1.585"
##	"-1.19"	"0"	"1.62"	"1.362"
##	"-1.191"	"0"	"1.49"	"1.251"
##	"-1.196"	"4"	"7.22"	"2.691"
##	"-1.209"	"1"	"3.21"	"1.827"
##	"-1.21"	"0"	"1.36"	"1.124"
##	"-1.212"	"0"	"1.73"	"1.427"
##	"-1.212"	"38"	"45.94"	"6.552"
##	"-1.215"	"0"	"1.46"	"1.201"
##	"-1.228"	"0"	"1.77"	"1.441"
##	"-1.23"	"0"	"1.23"	"0.993"
##	"-1.23"	"3"	"6.1"	"2.521"
##	"-1.232"	"0"	"1.55"	"1.258"
##	"-1.248"	"2"	"4.35"	"1.882"
##	"-1.249"	"0"	"1.57"	"1.257"
##	"-1.254"	"6"	"9.74"	"2.984"
##	"-1.258"	"1719"	"1778.45"	"47.241"
##	"-1.258"	"0"	"1.79"	"1.423"
##	"-1.262"	"1"	"3.85"	"2.258"
##	"-1.268"	"0"	"1.68"	"1.325"
##	"-1.27"	"18"	"24.19"	"4.874"
##	"-1.273"	"1"	"2.92"	"1.509"
##	"-1.277"	"1"	"3.29"	"1.794"
##	"-1.278"	"76"	"87.16"	"8.733"
##	"-1.28"	"1"	"2.87"	"1.461"
##	"-1.282"	"0"	"1.54"	"1.201"
##	"-1.282"	"45"	"54.24"	"7.208"
##	"-1.283"	"15"	"20.45"	"4.248"
##	"-1.283"	"0"	"1.76"	"1.372"
##	"-1.284"	"5"	"8.46"	"2.695"
##	"-1.29"	"207"	"224.79"	"13.788"
##	"-1.29"	"0"	"1.29"	"0.998"
##	"-1.291"	"8"	"12.99"	"3.865"
##	"-1.292"	"0"	"1.62"	"1.254"
##	"-1.292"	"559"	"591.48"	"25.141"
##	"-1.296"	"24"	"30.95"	"5.364"
##	"-1.296"	"0"	"1.43"	"1.103"
##	"-1.301"	"0"	"1.97"	"1.514"
##	"-1.303"	"41"	"50.25"	"7.1"
##	"-1.309"	"0"	"1.56"	"1.192"
##	"-1.31"	"0"	"1.33"	"1.016"
##	"-1.316"	"11"	"16.83"	"4.431"
##	"-1.318"	"0"	"1.56"	"1.183"
##	"-1.32"	"0"	"1.53"	"1.159"
##	"-1.322"	"29"	"37.8"	"6.658"

##	"-1.322"	"4"	"7.94"	"2.981"
##	"-1.326"	"5"	"8.17"	"2.391"
##	"-1.327"	"2"	"4.88"	"2.171"
##	"-1.327"	"14"	"19.56"	"4.191"
##	"-1.33"	"0"	"1.47"	"1.105"
##	"-1.333"	"2"	"4.85"	"2.139"
##	"-1.34"	"0"	"1.92"	"1.433"
##	"-1.341"	"0"	"1.53"	"1.141"
##	"-1.341"	"0"	"1.43"	"1.066"
##	"-1.347"	"2"	"4.88"	"2.138"
##	"-1.361"	"0"	"1.72"	"1.264"
##	"-1.361"	"0"	"1.72"	"1.264"
##	"-1.361"	"0"	"1.72"	"1.264"
##	"-1.362"	"0"	"1.78"	"1.307"
##	"-1.362"	"6"	"10.36"	"3.202"
##	"-1.366"	"0"	"1.51"	"1.105"
##	"-1.367"	"26"	"34.1"	"5.926"
##	"-1.367"	"8"	"11.87"	"2.831"
##	"-1.371"	"0"	"1.39"	"1.014"
##	"-1.374"	"0"	"1.92"	"1.398"
##	"-1.378"	"0"	"2.03"	"1.473"
##	"-1.378"	"6"	"10.84"	"3.513"
##	"-1.38"	"0"	"2.33"	"1.688"
##	"-1.382"	"0"	"1.75"	"1.266"
##	"-1.383"	"0"	"2.01"	"1.453"
##	"-1.385"	"362"	"394.74"	"23.644"
##	"-1.385"	"0"	"1.69"	"1.22"
##	"-1.387"	"0"	"1.78"	"1.284"
##	"-1.392"	"1"	"3.45"	"1.76"
##	"-1.4"	"1"	"3.58"	"1.843"
##	"-1.406"	"0"	"2.1"	"1.494"
##	"-1.408"	"5"	"8.82"	"2.713"
##	"-1.409"	"0"	"1.75"	"1.242"
##	"-1.414"	"0"	"2.09"	"1.478"
##	"-1.415"	"12"	"17.57"	"3.937"
##	"-1.42"	"0"	"1.59"	"1.12"
##	"-1.421"	"1"	"3.63"	"1.851"
##	"-1.422"	"0"	"1.78"	"1.252"
##	"-1.424"	"0"	"1.67"	"1.173"
##	"-1.424"	"0"	"1.67"	"1.173"
##	"-1.425"	"0"	"2.05"	"1.438"
##	"-1.426"	"0"	"2.19"	"1.535"
##	"-1.427"	"0"	"1.95"	"1.366"
##	"-1.43"	"1"	"3.66"	"1.86"
##	"-1.436"	"2"	"5.17"	"2.207"
##	"-1.439"	"2"	"5.45"	"2.397"
##	"-1.44"	"1"	"3.98"	"2.069"
##	"-1.442"	"0"	"1.79"	"1.241"
##	"-1.444"	"12"	"17.73"	"3.969"
##	"-1.451"	"0"	"2.08"	"1.433"
##	"-1.452"	"10"	"15.54"	"3.815"
##	"-1.453"	"0"	"1.98"	"1.363"
##	"-1.456"	"1"	"4.12"	"2.143"
##	"-1.459"	"7"	"11.74"	"3.249"

##	"-1.461"	"0"	"1.49"	"1.02"
##	"-1.465"	"5"	"9.72"	"3.223"
##	"-1.471"	"0"	"2.16"	"1.468"
##	"-1.471"	"1"	"3.58"	"1.753"
##	"-1.471"	"2"	"5.67"	"2.495"
##	"-1.477"	"0"	"2.23"	"1.51"
##	"-1.478"	"0"	"1.7"	"1.15"
##	"-1.482"	"4"	"8.19"	"2.827"
##	"-1.484"	"22"	"29.53"	"5.074"
##	"-1.486"	"1"	"3.98"	"2.005"
##	"-1.487"	"1"	"3.43"	"1.635"
##	"-1.491"	"12"	"18.03"	"4.044"
##	"-1.495"	"143"	"161.9"	"12.639"
##	"-1.5"	"8"	"13.21"	"3.474"
##	"-1.501"	"3"	"6.4"	"2.265"
##	"-1.505"	"0"	"2.65"	"1.76"
##	"-1.509"	"0"	"2"	"1.326"
##	"-1.509"	"136"	"153.82"	"11.812"
##	"-1.511"	"65"	"78.35"	"8.838"
##	"-1.511"	"1"	"4.32"	"2.197"
##	"-1.513"	"0"	"1.79"	"1.183"
##	"-1.526"	"20"	"27.69"	"5.041"
##	"-1.526"	"58"	"70.22"	"8.006"
##	"-1.526"	"0"	"1.82"	"1.192"
##	"-1.53"	"0"	"1.91"	"1.248"
##	"-1.532"	"2"	"5.52"	"2.298"
##	"-1.534"	"0"	"1.76"	"1.147"
##	"-1.535"	"4"	"8.05"	"2.638"
##	"-1.537"	"0"	"2.21"	"1.438"
##	"-1.538"	"1"	"3.7"	"1.755"
##	"-1.54"	"0"	"2.52"	"1.636"
##	"-1.559"	"4"	"8.74"	"3.041"
##	"-1.56"	"2"	"5.39"	"2.174"
##	"-1.562"	"0"	"3.07"	"1.966"
##	"-1.567"	"0"	"2.09"	"1.334"
##	"-1.575"	"152"	"172.77"	"13.188"
##	"-1.58"	"0"	"2.05"	"1.298"
##	"-1.585"	"13"	"20.13"	"4.498"
##	"-1.59"	"0"	"2.08"	"1.308"
##	"-1.593"	"72"	"86.37"	"9.02"
##	"-1.594"	"1"	"4.71"	"2.328"
##	"-1.596"	"0"	"2.64"	"1.655"
##	"-1.598"	"315"	"346.05"	"19.435"
##	"-1.601"	"0"	"2.26"	"1.411"
##	"-1.602"	"2"	"5.05"	"1.904"
##	"-1.603"	"0"	"2.85"	"1.777"
##	"-1.604"	"7"	"12.86"	"3.654"
##	"-1.607"	"42"	"53.66"	"7.256"
##	"-1.608"	"4"	"9.09"	"3.166"
##	"-1.609"	"15"	"21.83"	"4.245"
##	"-1.609"	"10"	"17.33"	"4.555"
##	"-1.614"	"3"	"7.11"	"2.546"
##	"-1.622"	"177"	"198.72"	"13.389"
##	"-1.622"	"0"	"2.06"	"1.27"

##	"-1.624"	"1"	"4.33"	"2.05"
##	"-1.631"	"0"	"2.83"	"1.735"
##	"-1.632"	"0"	"1.93"	"1.183"
##	"-1.632"	"0"	"2.47"	"1.514"
##	"-1.632"	"0"	"2.47"	"1.514"
##	"-1.634"	"216"	"241.97"	"15.893"
##	"-1.638"	"0"	"2.7"	"1.648"
##	"-1.64"	"1"	"4.34"	"2.036"
##	"-1.641"	"2"	"5.81"	"2.321"
##	"-1.649"	"2"	"5.77"	"2.287"
##	"-1.65"	"2"	"5.39"	"2.054"
##	"-1.653"	"3"	"7.34"	"2.626"
##	"-1.654"	"40"	"51.91"	"7.201"
##	"-1.656"	"16"	"24.51"	"5.137"
##	"-1.659"	"10"	"17.83"	"4.721"
##	"-1.659"	"1"	"4.08"	"1.857"
##	"-1.675"	"0"	"2.69"	"1.606"
##	"-1.678"	"3"	"7.12"	"2.455"
##	"-1.679"	"2"	"5.98"	"2.37"
##	"-1.68"	"0"	"2.78"	"1.655"
##	"-1.682"	"1"	"4.38"	"2.009"
##	"-1.682"	"1"	"4.55"	"2.11"
##	"-1.684"	"54"	"66.72"	"7.555"
##	"-1.685"	"2"	"5.89"	"2.309"
##	"-1.689"	"0"	"3.18"	"1.882"
##	"-1.69"	"3"	"7.06"	"2.403"
##	"-1.692"	"33"	"43.78"	"6.37"
##	"-1.693"	"0"	"2.66"	"1.571"
##	"-1.696"	"27"	"36.16"	"5.401"
##	"-1.704"	"21"	"29.66"	"5.082"
##	"-1.705"	"4"	"9.38"	"3.155"
##	"-1.706"	"190"	"214.78"	"14.525"
##	"-1.706"	"2"	"5.59"	"2.104"
##	"-1.706"	"0"	"2.17"	"1.272"
##	"-1.707"	"0"	"3.12"	"1.827"
##	"-1.709"	"0"	"2.7"	"1.58"
##	"-1.71"	"2"	"6.84"	"2.831"
##	"-1.711"	"138"	"158.01"	"11.693"
##	"-1.719"	"7"	"13.53"	"3.799"
##	"-1.72"	"3"	"7.51"	"2.623"
##	"-1.72"	"0"	"2.38"	"1.384"
##	"-1.722"	"23"	"32.89"	"5.743"
##	"-1.723"	"10"	"17.22"	"4.191"
##	"-1.724"	"1"	"5.21"	"2.442"
##	"-1.727"	"14"	"22.46"	"4.9"
##	"-1.733"	"0"	"2.73"	"1.575"
##	"-1.736"	"0"	"3.64"	"2.096"
##	"-1.736"	"0"	"3.17"	"1.826"
##	"-1.747"	"0"	"2.73"	"1.563"
##	"-1.748"	"0"	"3.6"	"2.06"
##	"-1.748"	"11"	"18.98"	"4.566"
##	"-1.754"	"7"	"13.08"	"3.466"
##	"-1.755"	"6"	"11.98"	"3.408"
##	"-1.758"	"5"	"9.95"	"2.815"

##	"-1.76"	"1"	"5.23"	"2.403"
##	"-1.761"	"8"	"14.03"	"3.424"
##	"-1.762"	"0"	"2.57"	"1.458"
##	"-1.764"	"3"	"8.02"	"2.846"
##	"-1.768"	"20"	"30.33"	"5.843"
##	"-1.769"	"0"	"3.14"	"1.775"
##	"-1.786"	"1"	"4.03"	"1.696"
##	"-1.79"	"2"	"7.09"	"2.843"
##	"-1.794"	"1"	"4.51"	"1.957"
##	"-1.794"	"5"	"11.31"	"3.518"
##	"-1.813"	"110"	"128.92"	"10.437"
##	"-1.819"	"0"	"3.24"	"1.782"
##	"-1.82"	"50"	"63.65"	"7.499"
##	"-1.822"	"28"	"40.08"	"6.63"
##	"-1.823"	"1"	"4.5"	"1.92"
##	"-1.842"	"2"	"6.26"	"2.312"
##	"-1.847"	"136"	"159.11"	"12.514"
##	"-1.849"	"1"	"4.82"	"2.066"
##	"-1.861"	"0"	"3.21"	"1.725"
##	"-1.862"	"6"	"12.22"	"3.341"
##	"-1.863"	"9"	"17.49"	"4.558"
##	"-1.865"	"1"	"5.21"	"2.258"
##	"-1.865"	"1"	"5.8"	"2.574"
##	"-1.871"	"1"	"5.82"	"2.576"
##	"-1.874"	"0"	"3.4"	"1.815"
##	"-1.877"	"12"	"18.99"	"3.724"
##	"-1.88"	"0"	"3.5"	"1.861"
##	"-1.88"	"2"	"6.38"	"2.33"
##	"-1.882"	"0"	"3.23"	"1.717"
##	"-1.884"	"3"	"9.54"	"3.471"
##	"-1.887"	"2255"	"2339.72"	"44.895"
##	"-1.887"	"1"	"5.21"	"2.231"
##	"-1.904"	"0"	"4.01"	"2.106"
##	"-1.907"	"5"	"11.98"	"3.66"
##	"-1.909"	"1"	"6.15"	"2.698"
##	"-1.91"	"0"	"3.39"	"1.775"
##	"-1.916"	"2"	"8.26"	"3.268"
##	"-1.917"	"0"	"3.64"	"1.899"
##	"-1.919"	"4"	"9.82"	"3.033"
##	"-1.921"	"0"	"3.01"	"1.567"
##	"-1.921"	"0"	"3.01"	"1.567"
##	"-1.921"	"0"	"3.01"	"1.567"
##	"-1.921"	"0"	"3.01"	"1.567"
##	"-1.927"	"38"	"53.27"	"7.926"
##	"-1.93"	"1"	"5.76"	"2.466"
##	"-1.936"	"56"	"71.75"	"8.136"
##	"-1.938"	"1"	"5.77"	"2.461"
##	"-1.944"	"0"	"3.09"	"1.59"
##	"-1.953"	"2"	"6.64"	"2.376"
##	"-1.964"	"4"	"9.21"	"2.653"
##	"-1.965"	"0"	"2.94"	"1.496"
##	"-1.975"	"0"	"3.32"	"1.681"
##	"-1.976"	"11"	"18.99"	"4.044"
##	"-1.978"	"0"	"3.57"	"1.805"

##	"-1.98"	"1"	"6.29"	"2.672"
##	"-1.982"	"23"	"33.88"	"5.491"
##	"-1.984"	"15"	"23.43"	"4.248"
##	"-1.99"	"0"	"3.61"	"1.814"
##	"-1.99"	"0"	"3.61"	"1.814"
##	"-1.993"	"1"	"4.8"	"1.907"
##	"-1.995"	"26"	"36.09"	"5.057"
##	"-1.995"	"6"	"14.15"	"4.086"
##	"-1.997"	"0"	"3.66"	"1.832"
##	"-1.998"	"16"	"24.34"	"4.174"
##	"-2.004"	"1"	"5.09"	"2.04"
##	"-2.008"	"0"	"3.83"	"1.907"
##	"-2.014"	"3"	"8.19"	"2.577"
##	"-2.03"	"0"	"4.28"	"2.109"
##	"-2.032"	"0"	"3.53"	"1.738"
##	"-2.037"	"75"	"95.07"	"9.854"
##	"-2.038"	"27"	"39.43"	"6.099"
##	"-2.038"	"60"	"79.61"	"9.62"
##	"-2.039"	"30"	"42.83"	"6.291"
##	"-2.048"	"37"	"52.99"	"7.806"
##	"-2.049"	"0"	"4.03"	"1.967"
##	"-2.054"	"57"	"75.49"	"9.002"
##	"-2.057"	"2"	"5.97"	"1.93"
##	"-2.058"	"43"	"58.67"	"7.615"
##	"-2.059"	"175"	"205.75"	"14.933"
##	"-2.066"	"7"	"14.85"	"3.799"
##	"-2.067"	"29"	"40.9"	"5.757"
##	"-2.071"	"4"	"10.41"	"3.095"
##	"-2.077"	"0"	"4.54"	"2.185"
##	"-2.079"	"5"	"13.29"	"3.988"
##	"-2.082"	"0"	"3.81"	"1.83"
##	"-2.083"	"374"	"415.67"	"20.002"
##	"-2.084"	"0"	"4.06"	"1.948"
##	"-2.095"	"2"	"7.99"	"2.859"
##	"-2.098"	"0"	"4.38"	"2.088"
##	"-2.098"	"6"	"13.58"	"3.613"
##	"-2.103"	"6"	"14.82"	"4.193"
##	"-2.104"	"2"	"7.11"	"2.428"
##	"-2.108"	"11"	"20.44"	"4.477"
##	"-2.11"	"8"	"15.16"	"3.393"
##	"-2.113"	"1"	"7.45"	"3.053"
##	"-2.115"	"0"	"4"	"1.891"
##	"-2.115"	"240"	"280.19"	"19.002"
##	"-2.117"	"5"	"11.71"	"3.17"
##	"-2.119"	"122"	"148.9"	"12.693"
##	"-2.124"	"0"	"4.9"	"2.307"
##	"-2.126"	"0"	"3.11"	"1.463"
##	"-2.127"	"3"	"9.35"	"2.986"
##	"-2.128"	"11"	"20.04"	"4.247"
##	"-2.133"	"0"	"4.81"	"2.255"
##	"-2.142"	"0"	"4.51"	"2.106"
##	"-2.142"	"0"	"4.51"	"2.106"
##	"-2.146"	"1"	"5.65"	"2.167"
##	"-2.147"	"5"	"12.02"	"3.269"

##	"-2.148"	"161"	"192.59"	"14.705"
##	"-2.148"	"4"	"11.04"	"3.278"
##	"-2.158"	"0"	"4.05"	"1.877"
##	"-2.162"	"0"	"4.11"	"1.901"
##	"-2.162"	"0"	"4.11"	"1.901"
##	"-2.166"	"0"	"5.74"	"2.65"
##	"-2.174"	"0"	"4.46"	"2.052"
##	"-2.178"	"7"	"16.09"	"4.173"
##	"-2.181"	"0"	"4.24"	"1.944"
##	"-2.181"	"0"	"4.24"	"1.944"
##	"-2.188"	"4"	"10.13"	"2.802"
##	"-2.19"	"6"	"14.29"	"3.785"
##	"-2.19"	"3"	"8.89"	"2.689"
##	"-2.193"	"0"	"4.86"	"2.216"
##	"-2.197"	"0"	"5.11"	"2.326"
##	"-2.199"	"0"	"4.98"	"2.265"
##	"-2.202"	"0"	"5.16"	"2.343"
##	"-2.204"	"20"	"31.74"	"5.327"
##	"-2.206"	"2066"	"2185.39"	"54.112"
##	"-2.212"	"1"	"6.38"	"2.432"
##	"-2.215"	"1"	"4.95"	"1.783"
##	"-2.217"	"117"	"141.09"	"10.867"
##	"-2.218"	"11"	"20.55"	"4.305"
##	"-2.221"	"1"	"6.26"	"2.368"
##	"-2.223"	"4"	"10.54"	"2.942"
##	"-2.232"	"0"	"4.47"	"2.002"
##	"-2.232"	"55"	"75.37"	"9.127"
##	"-2.236"	"1"	"6.93"	"2.652"
##	"-2.244"	"3"	"9"	"2.674"
##	"-2.247"	"0"	"3.97"	"1.766"
##	"-2.249"	"616"	"664.29"	"21.468"
##	"-2.249"	"10"	"18.93"	"3.97"
##	"-2.25"	"0"	"3.64"	"1.618"
##	"-2.251"	"3"	"9.98"	"3.101"
##	"-2.253"	"0"	"4.27"	"1.896"
##	"-2.256"	"9"	"18.66"	"4.281"
##	"-2.256"	"0"	"5.53"	"2.451"
##	"-2.267"	"58"	"78.26"	"8.937"
##	"-2.269"	"1"	"7.7"	"2.952"
##	"-2.271"	"0"	"4.39"	"1.933"
##	"-2.273"	"25"	"37.46"	"5.482"
##	"-2.28"	"106"	"133.07"	"11.873"
##	"-2.287"	"35"	"50.31"	"6.695"
##	"-2.287"	"19"	"31"	"5.247"
##	"-2.297"	"1"	"5.91"	"2.137"
##	"-2.298"	"0"	"3.31"	"1.44"
##	"-2.304"	"0"	"4.21"	"1.827"
##	"-2.304"	"5"	"11.59"	"2.861"
##	"-2.306"	"0"	"6.29"	"2.728"
##	"-2.31"	"3"	"10.64"	"3.308"
##	"-2.312"	"8"	"16.84"	"3.824"
##	"-2.318"	"0"	"5.27"	"2.273"
##	"-2.319"	"0"	"5.81"	"2.505"
##	"-2.323"	"578"	"640.35"	"26.842"

##	"-2.327"	"1"	"6.68"	"2.441"
##	"-2.332"	"6"	"14.34"	"3.577"
##	"-2.334"	"9"	"19.14"	"4.344"
##	"-2.336"	"2"	"8.46"	"2.765"
##	"-2.337"	"4"	"12.05"	"3.445"
##	"-2.341"	"7"	"17.35"	"4.421"
##	"-2.347"	"0"	"5.82"	"2.48"
##	"-2.351"	"918"	"982.36"	"27.372"
##	"-2.352"	"7"	"16.37"	"3.984"
##	"-2.363"	"34"	"52.55"	"7.849"
##	"-2.37"	"0"	"4.56"	"1.924"
##	"-2.377"	"3"	"10.99"	"3.362"
##	"-2.388"	"3"	"10.64"	"3.199"
##	"-2.393"	"0"	"5.56"	"2.324"
##	"-2.395"	"4"	"12.45"	"3.529"
##	"-2.396"	"1"	"6.76"	"2.404"
##	"-2.406"	"1"	"7.04"	"2.51"
##	"-2.407"	"4"	"11.53"	"3.128"
##	"-2.416"	"3"	"10.06"	"2.923"
##	"-2.416"	"0"	"4.13"	"1.709"
##	"-2.424"	"1"	"6.44"	"2.244"
##	"-2.427"	"1"	"7.81"	"2.806"
##	"-2.435"	"0"	"5.43"	"2.23"
##	"-2.44"	"3"	"11.22"	"3.368"
##	"-2.451"	"0"	"4.81"	"1.963"
##	"-2.452"	"23"	"38.34"	"6.256"
##	"-2.458"	"12"	"21.07"	"3.691"
##	"-2.459"	"7"	"16.31"	"3.786"
##	"-2.46"	"0"	"4.06"	"1.65"
##	"-2.463"	"0"	"7.13"	"2.894"
##	"-2.481"	"0"	"5.78"	"2.329"
##	"-2.481"	"6"	"16.2"	"4.112"
##	"-2.482"	"75"	"99.11"	"9.715"
##	"-2.483"	"1"	"7.08"	"2.448"
##	"-2.495"	"2"	"9.68"	"3.078"
##	"-2.5"	"0"	"6.25"	"2.5"
##	"-2.502"	"38"	"56.15"	"7.255"
##	"-2.503"	"0"	"5.54"	"2.213"
##	"-2.506"	"0"	"5.27"	"2.103"
##	"-2.507"	"70"	"98.63"	"11.421"
##	"-2.509"	"3"	"11.05"	"3.208"
##	"-2.523"	"38"	"57.61"	"7.773"
##	"-2.523"	"10"	"19.85"	"3.904"
##	"-2.525"	"0"	"5.46"	"2.162"
##	"-2.536"	"53"	"72.47"	"7.678"
##	"-2.539"	"5"	"14.84"	"3.876"
##	"-2.542"	"49"	"68.02"	"7.482"
##	"-2.558"	"6"	"15.84"	"3.847"
##	"-2.561"	"3"	"12.33"	"3.643"
##	"-2.563"	"3"	"11.5"	"3.317"
##	"-2.564"	"62"	"83.85"	"8.521"
##	"-2.564"	"1"	"8.02"	"2.738"
##	"-2.565"	"2"	"9.99"	"3.116"
##	"-2.566"	"6"	"15.45"	"3.683"

##	"-2.57"	"0"	"4.7"	"1.829"
##	"-2.571"	"1"	"8.87"	"3.061"
##	"-2.576"	"0"	"7.06"	"2.741"
##	"-2.587"	"1"	"7.59"	"2.547"
##	"-2.595"	"4"	"13.53"	"3.672"
##	"-2.605"	"2"	"10.85"	"3.397"
##	"-2.614"	"18"	"32.82"	"5.67"
##	"-2.62"	"0"	"7.29"	"2.783"
##	"-2.621"	"1"	"10.21"	"3.514"
##	"-2.628"	"3"	"13.27"	"3.908"
##	"-2.629"	"5"	"15.01"	"3.807"
##	"-2.629"	"30"	"48.8"	"7.151"
##	"-2.643"	"107"	"140.32"	"12.608"
##	"-2.647"	"1"	"10.47"	"3.577"
##	"-2.651"	"10"	"21.31"	"4.266"
##	"-2.659"	"15"	"28.67"	"5.141"
##	"-2.662"	"16"	"28.31"	"4.625"
##	"-2.686"	"1"	"8.58"	"2.822"
##	"-2.693"	"1"	"10.48"	"3.52"
##	"-2.701"	"16"	"31.91"	"5.891"
##	"-2.702"	"4"	"12.27"	"3.061"
##	"-2.704"	"3"	"12.65"	"3.569"
##	"-2.71"	"5"	"13.76"	"3.232"
##	"-2.717"	"6"	"15.67"	"3.559"
##	"-2.722"	"126"	"161.05"	"12.874"
##	"-2.722"	"3"	"13.13"	"3.722"
##	"-2.729"	"73"	"97.79"	"9.084"
##	"-2.729"	"0"	"5.91"	"2.165"
##	"-2.731"	"0"	"5.87"	"2.149"
##	"-2.742"	"9"	"20.63"	"4.242"
##	"-2.743"	"10"	"23.2"	"4.812"
##	"-2.751"	"4"	"17.06"	"4.748"
##	"-2.776"	"26"	"43.87"	"6.436"
##	"-2.778"	"33"	"52.63"	"7.066"
##	"-2.78"	"0"	"8.23"	"2.961"
##	"-2.785"	"54"	"76.97"	"8.248"
##	"-2.785"	"0"	"7.82"	"2.808"
##	"-2.79"	"7"	"18.24"	"4.028"
##	"-2.792"	"6"	"15.82"	"3.517"
##	"-2.809"	"2"	"8.65"	"2.367"
##	"-2.812"	"13"	"24.57"	"4.115"
##	"-2.819"	"81"	"112.18"	"11.061"
##	"-2.826"	"2"	"10.93"	"3.16"
##	"-2.835"	"0"	"7.16"	"2.526"
##	"-2.842"	"3"	"13.53"	"3.705"
##	"-2.853"	"113"	"148.19"	"12.336"
##	"-2.856"	"2"	"13.61"	"4.065"
##	"-2.86"	"1"	"8.3"	"2.552"
##	"-2.862"	"0"	"6.62"	"2.313"
##	"-2.864"	"33"	"53.42"	"7.131"
##	"-2.865"	"1"	"11.72"	"3.742"
##	"-2.866"	"5"	"16.31"	"3.946"
##	"-2.867"	"1"	"10.34"	"3.257"
##	"-2.868"	"16"	"33.81"	"6.21"

##	"-2.877"	"1"	"8.7"	"2.676"
##	"-2.885"	"15"	"31"	"5.547"
##	"-2.885"	"40"	"60.1"	"6.968"
##	"-2.888"	"8"	"25.23"	"5.966"
##	"-2.893"	"1"	"8.17"	"2.478"
##	"-2.906"	"3"	"12.9"	"3.407"
##	"-2.907"	"8"	"21.03"	"4.482"
##	"-2.91"	"878"	"989.58"	"38.338"
##	"-2.932"	"3"	"16.13"	"4.478"
##	"-2.934"	"3"	"12.29"	"3.166"
##	"-2.934"	"54"	"84.33"	"10.339"
##	"-2.94"	"1"	"9.23"	"2.799"
##	"-2.94"	"0"	"6.04"	"2.054"
##	"-2.94"	"7"	"20.88"	"4.721"
##	"-2.943"	"1"	"10.09"	"3.088"
##	"-2.946"	"5"	"16.39"	"3.866"
##	"-2.948"	"0"	"8.39"	"2.846"
##	"-2.952"	"16"	"32.34"	"5.535"
##	"-2.957"	"19"	"35.17"	"5.468"
##	"-2.982"	"5"	"16.89"	"3.987"
##	"-2.982"	"6"	"16.4"	"3.487"
##	"-2.99"	"2"	"12.28"	"3.438"
##	"-2.994"	"59"	"83.41"	"8.153"
##	"-3.007"	"16"	"31.91"	"5.292"
##	"-3.007"	"5"	"17.22"	"4.064"
##	"-3.014"	"44"	"66.06"	"7.319"
##	"-3.02"	"113"	"147.43"	"11.4"
##	"-3.02"	"185"	"231.09"	"15.261"
##	"-3.022"	"3"	"16.85"	"4.582"
##	"-3.022"	"0"	"9.04"	"2.991"
##	"-3.025"	"17"	"33.94"	"5.599"
##	"-3.027"	"0"	"8.18"	"2.702"
##	"-3.028"	"411"	"480.53"	"22.966"
##	"-3.028"	"1"	"13.75"	"4.21"
##	"-3.037"	"13"	"31.72"	"6.165"
##	"-3.039"	"2"	"11.67"	"3.182"
##	"-3.043"	"199"	"238.98"	"13.136"
##	"-3.045"	"88"	"123.25"	"11.575"
##	"-3.049"	"3"	"14.59"	"3.801"
##	"-3.053"	"2"	"11.53"	"3.122"
##	"-3.056"	"10"	"27.22"	"5.635"
##	"-3.057"	"3"	"14.75"	"3.844"
##	"-3.067"	"38"	"58.82"	"6.789"
##	"-3.067"	"11"	"27.28"	"5.309"
##	"-3.068"	"89"	"124.27"	"11.494"
##	"-3.074"	"35"	"57.48"	"7.312"
##	"-3.076"	"7"	"20.64"	"4.435"
##	"-3.1"	"9"	"24.5"	"5"
##	"-3.108"	"1"	"15.1"	"4.536"
##	"-3.116"	"3"	"14.86"	"3.806"
##	"-3.118"	"123"	"161.89"	"12.475"
##	"-3.123"	"2"	"15.64"	"4.368"
##	"-3.129"	"6"	"19.58"	"4.34"
##	"-3.15"	"46"	"70.75"	"7.858"

##	"-3.155"	"11"	"26.52"	"4.918"
##	"-3.17"	"222"	"273.96"	"16.389"
##	"-3.176"	"0"	"8.99"	"2.83"
##	"-3.176"	"93"	"131.4"	"12.091"
##	"-3.177"	"1"	"13.81"	"4.032"
##	"-3.18"	"23"	"44.97"	"6.908"
##	"-3.196"	"29"	"49.4"	"6.383"
##	"-3.197"	"2"	"12.09"	"3.156"
##	"-3.2"	"11"	"26.56"	"4.862"
##	"-3.205"	"19"	"42.61"	"7.368"
##	"-3.21"	"131"	"170.81"	"12.401"
##	"-3.211"	"4"	"14.02"	"3.12"
##	"-3.227"	"4"	"16.58"	"3.898"
##	"-3.243"	"7"	"19.02"	"3.706"
##	"-3.258"	"2"	"13.71"	"3.594"
##	"-3.26"	"11"	"24.01"	"3.991"
##	"-3.26"	"4"	"14.55"	"3.236"
##	"-3.264"	"29"	"54.31"	"7.755"
##	"-3.265"	"121"	"162.92"	"12.838"
##	"-3.269"	"9"	"22.26"	"4.057"
##	"-3.278"	"10"	"25.58"	"4.753"
##	"-3.282"	"215"	"264.42"	"15.058"
##	"-3.3"	"8"	"23.43"	"4.676"
##	"-3.318"	"1"	"9.78"	"2.646"
##	"-3.323"	"51"	"78.91"	"8.399"
##	"-3.325"	"15"	"33.3"	"5.504"
##	"-3.341"	"1"	"14.29"	"3.978"
##	"-3.345"	"4"	"16.18"	"3.641"
##	"-3.347"	"3"	"14.73"	"3.504"
##	"-3.351"	"4"	"18.45"	"4.312"
##	"-3.353"	"0"	"11.12"	"3.316"
##	"-3.36"	"3"	"16.34"	"3.97"
##	"-3.366"	"10"	"25"	"4.456"
##	"-3.388"	"7"	"21.6"	"4.309"
##	"-3.394"	"10"	"26.69"	"4.917"
##	"-3.397"	"137"	"186.32"	"14.52"
##	"-3.408"	"121"	"166.81"	"13.442"
##	"-3.417"	"49"	"81.63"	"9.549"
##	"-3.419"	"0"	"9.62"	"2.813"
##	"-3.419"	"2"	"16.45"	"4.227"
##	"-3.433"	"23"	"44.95"	"6.393"
##	"-3.434"	"16"	"35.15"	"5.577"
##	"-3.437"	"21"	"40.92"	"5.796"
##	"-3.455"	"8"	"25.19"	"4.976"
##	"-3.467"	"4"	"15.85"	"3.418"
##	"-3.491"	"4"	"19.39"	"4.408"
##	"-3.495"	"43"	"73.36"	"8.687"
##	"-3.497"	"7"	"20.21"	"3.777"
##	"-3.499"	"11"	"31.59"	"5.885"
##	"-3.502"	"6"	"20.36"	"4.101"
##	"-3.512"	"11"	"28.01"	"4.844"
##	"-3.541"	"14"	"36.72"	"6.417"
##	"-3.543"	"29"	"52.14"	"6.532"
##	"-3.544"	"45"	"71.8"	"7.563"

##	"-3.546"	"1"	"11.78"	"3.04"
##	"-3.554"	"68"	"98.11"	"8.472"
##	"-3.558"	"61"	"93.73"	"9.2"
##	"-3.559"	"8"	"25.93"	"5.038"
##	"-3.559"	"6"	"21.73"	"4.42"
##	"-3.56"	"2"	"15.88"	"3.898"
##	"-3.563"	"174"	"225.83"	"14.547"
##	"-3.59"	"23"	"46.07"	"6.426"
##	"-3.597"	"8"	"26.26"	"5.076"
##	"-3.605"	"4"	"18.33"	"3.975"
##	"-3.607"	"1"	"14.93"	"3.862"
##	"-3.618"	"90"	"132.61"	"11.777"
##	"-3.631"	"10"	"32.5"	"6.196"
##	"-3.637"	"11"	"29.05"	"4.963"
##	"-3.655"	"30"	"56.67"	"7.298"
##	"-3.687"	"15"	"34.52"	"5.294"
##	"-3.691"	"0"	"13.91"	"3.769"
##	"-3.693"	"133"	"183.74"	"13.741"
##	"-3.698"	"9"	"27.64"	"5.04"
##	"-3.716"	"157"	"206.48"	"13.316"
##	"-3.722"	"8"	"26.28"	"4.911"
##	"-3.726"	"67"	"103.22"	"9.721"
##	"-3.729"	"0"	"11.07"	"2.969"
##	"-3.73"	"3"	"18.75"	"4.222"
##	"-3.743"	"6"	"24.54"	"4.953"
##	"-3.754"	"200"	"257.81"	"15.401"
##	"-3.758"	"67"	"107.93"	"10.891"
##	"-3.769"	"142"	"189.25"	"12.536"
##	"-3.771"	"5"	"26.44"	"5.686"
##	"-3.773"	"2"	"15.52"	"3.583"
##	"-3.787"	"187"	"238.42"	"13.577"
##	"-3.789"	"334"	"409.39"	"19.896"
##	"-3.8"	"8"	"27.53"	"5.139"
##	"-3.823"	"48"	"79.1"	"8.135"
##	"-3.825"	"12"	"30.52"	"4.842"
##	"-3.833"	"153"	"208.09"	"14.374"
##	"-3.837"	"19"	"41.63"	"5.898"
##	"-3.841"	"6"	"21.63"	"4.069"
##	"-3.885"	"35"	"64.03"	"7.473"
##	"-3.942"	"10"	"28.16"	"4.607"
##	"-3.958"	"1"	"20.2"	"4.851"
##	"-3.966"	"28"	"55.84"	"7.019"
##	"-3.979"	"196"	"260.59"	"16.233"
##	"-3.984"	"4"	"18.55"	"3.653"
##	"-3.986"	"48"	"83.48"	"8.901"
##	"-3.99"	"53"	"83.48"	"7.639"
##	"-3.991"	"0"	"14.76"	"3.699"
##	"-3.995"	"12"	"32.5"	"5.132"
##	"-4.004"	"4"	"23.71"	"4.922"
##	"-4.023"	"0"	"11"	"2.734"
##	"-4.031"	"5"	"21.34"	"4.053"
##	"-4.041"	"0"	"13.89"	"3.437"
##	"-4.044"	"21"	"44.75"	"5.873"
##	"-4.061"	"7"	"25.85"	"4.641"

##	"-4.064"	"0"	"12.59"	"3.098"
##	"-4.065"	"35"	"65.4"	"7.478"
##	"-4.07"	"7"	"25.79"	"4.617"
##	"-4.093"	"59"	"95.2"	"8.844"
##	"-4.094"	"2"	"17.74"	"3.845"
##	"-4.139"	"40"	"71.07"	"7.507"
##	"-4.147"	"380"	"461.48"	"19.646"
##	"-4.199"	"5"	"27.14"	"5.272"
##	"-4.22"	"4"	"21.11"	"4.055"
##	"-4.224"	"4"	"21.86"	"4.228"
##	"-4.226"	"12"	"36.64"	"5.83"
##	"-4.236"	"6"	"28"	"5.193"
##	"-4.261"	"8"	"28.54"	"4.821"
##	"-4.268"	"5"	"24.15"	"4.487"
##	"-4.276"	"89"	"134.57"	"10.658"
##	"-4.277"	"2"	"16.88"	"3.479"
##	"-4.278"	"89"	"135.29"	"10.82"
##	"-4.29"	"69"	"115.78"	"10.905"
##	"-4.295"	"12"	"37.55"	"5.948"
##	"-4.296"	"22"	"52.1"	"7.007"
##	"-4.325"	"551"	"660.76"	"25.376"
##	"-4.326"	"77"	"122.47"	"10.512"
##	"-4.365"	"0"	"14.89"	"3.411"
##	"-4.393"	"8"	"33.08"	"5.71"
##	"-4.402"	"20"	"51.68"	"7.197"
##	"-4.413"	"7"	"25.69"	"4.235"
##	"-4.422"	"33"	"68.84"	"8.105"
##	"-4.432"	"37"	"69.1"	"7.243"
##	"-4.444"	"106"	"153.98"	"10.796"
##	"-4.449"	"26"	"60.09"	"7.662"
##	"-4.47"	"1"	"16.29"	"3.421"
##	"-4.499"	"10"	"33.3"	"5.179"
##	"-4.536"	"120"	"170.32"	"11.095"
##	"-4.539"	"8"	"30.68"	"4.997"
##	"-4.546"	"428"	"537.14"	"24.009"
##	"-4.549"	"39"	"76.71"	"8.291"
##	"-4.557"	"3"	"27.18"	"5.306"
##	"-4.557"	"69"	"110.33"	"9.069"
##	"-4.582"	"1494"	"1688.71"	"42.497"
##	"-4.583"	"47"	"85.76"	"8.458"
##	"-4.584"	"8"	"28.44"	"4.459"
##	"-4.589"	"19"	"48.13"	"6.348"
##	"-4.592"	"4"	"27.23"	"5.059"
##	"-4.642"	"7"	"29.8"	"4.911"
##	"-4.657"	"340"	"434.99"	"20.399"
##	"-4.738"	"59"	"108.96"	"10.545"
##	"-4.748"	"4"	"27.6"	"4.971"
##	"-4.754"	"2"	"28.11"	"5.492"
##	"-4.797"	"25"	"60.02"	"7.3"
##	"-4.798"	"29"	"71.46"	"8.849"
##	"-4.862"	"13"	"43.78"	"6.33"
##	"-4.874"	"4"	"28.37"	"5"
##	"-4.875"	"47"	"90.74"	"8.973"
##	"-4.901"	"937"	"1103.68"	"34.013"

##	"-4.91"	"1"	"19.15"	"3.697"
##	"-4.931"	"34"	"83.05"	"9.948"
##	"-4.954"	"5"	"32.78"	"5.608"
##	"-4.958"	"12"	"48.74"	"7.41"
##	"-4.967"	"14"	"47.13"	"6.671"
##	"-4.984"	"6"	"35.2"	"5.859"
##	"-4.985"	"9"	"34"	"5.015"
##	"-5.005"	"33"	"71.23"	"7.638"
##	"-5.025"	"32"	"71.66"	"7.892"
##	"-5.037"	"8"	"34.91"	"5.343"
##	"-5.101"	"0"	"25.69"	"5.037"
##	"-5.122"	"303"	"402.94"	"19.511"
##	"-5.125"	"3"	"33.19"	"5.891"
##	"-5.157"	"6"	"36.25"	"5.866"
##	"-5.201"	"113"	"182.39"	"13.342"
##	"-5.24"	"3"	"31.03"	"5.349"
##	"-5.264"	"14"	"44.34"	"5.763"
##	"-5.278"	"33"	"72.62"	"7.507"
##	"-5.287"	"29"	"74.03"	"8.517"
##	"-5.353"	"9"	"38.2"	"5.455"
##	"-5.353"	"9"	"42.91"	"6.334"
##	"-5.386"	"751"	"921.03"	"31.569"
##	"-5.459"	"4"	"34.95"	"5.67"
##	"-5.509"	"118"	"189.82"	"13.037"
##	"-5.516"	"460"	"585.14"	"22.688"
##	"-5.533"	"6"	"36.94"	"5.592"
##	"-5.549"	"39"	"89.71"	"9.138"
##	"-5.559"	"9"	"40.35"	"5.64"
##	"-5.59"	"80"	"142.37"	"11.158"
##	"-5.666"	"125"	"216.47"	"16.143"
##	"-5.689"	"55"	"108.34"	"9.376"
##	"-5.696"	"25"	"69.65"	"7.838"
##	"-5.739"	"114"	"188.43"	"12.969"
##	"-5.748"	"242"	"358.32"	"20.237"
##	"-5.773"	"32"	"85.15"	"9.207"
##	"-5.822"	"6"	"36.93"	"5.313"
##	"-5.851"	"55"	"116.88"	"10.577"
##	"-5.851"	"248"	"350.56"	"17.528"
##	"-5.892"	"41"	"98.94"	"9.834"
##	"-6.012"	"279"	"396.91"	"19.612"
##	"-6.044"	"41"	"101.02"	"9.93"
##	"-6.051"	"101"	"172.2"	"11.766"
##	"-6.167"	"25"	"69.49"	"7.215"
##	"-6.168"	"796"	"974.52"	"28.941"
##	"-6.173"	"31"	"90.13"	"9.579"
##	"-6.201"	"194"	"303.5"	"17.658"
##	"-6.241"	"14"	"56.5"	"6.81"
##	"-6.277"	"7"	"50.95"	"7.001"
##	"-6.292"	"206"	"309.08"	"16.382"
##	"-6.315"	"115"	"210.91"	"15.188"
##	"-6.325"	"25"	"78.53"	"8.463"
##	"-6.375"	"53"	"120.2"	"10.541"
##	"-6.418"	"57"	"126.08"	"10.763"
##	"-6.536"	"849"	"1055.1"	"31.531"

##	"-6.542"	"243"	"367.76"	"19.071"
##	"-6.546"	"18"	"67.61"	"7.578"
##	"-6.571"	"6"	"51.68"	"6.951"
##	"-6.654"	"81"	"167.76"	"13.039"
##	"-6.698"	"76"	"152.83"	"11.471"
##	"-6.714"	"108"	"199.52"	"13.632"
##	"-6.762"	"187"	"301.51"	"16.934"
##	"-6.778"	"18"	"76.19"	"8.586"
##	"-6.832"	"25"	"79.98"	"8.048"
##	"-6.838"	"299"	"442.4"	"20.971"
##	"-6.858"	"4"	"40.78"	"5.363"
##	"-6.906"	"98"	"192.01"	"13.613"
##	"-6.921"	"41"	"99.57"	"8.463"
##	"-7.042"	"11"	"53.78"	"6.075"
##	"-7.053"	"44"	"133.11"	"12.634"
##	"-7.058"	"415"	"586.09"	"24.24"
##	"-7.07"	"32"	"99.11"	"9.492"
##	"-7.181"	"656"	"867.43"	"29.442"
##	"-7.201"	"9"	"52.05"	"5.979"
##	"-7.236"	"416"	"607.61"	"26.48"
##	"-7.319"	"27"	"95.47"	"9.355"
##	"-7.355"	"10"	"68.64"	"7.973"
##	"-7.373"	"356"	"509.68"	"20.845"
##	"-7.446"	"25"	"86.78"	"8.297"
##	"-7.45"	"37"	"104.63"	"9.077"
##	"-7.456"	"205"	"342.59"	"18.453"
##	"-7.494"	"11"	"61.44"	"6.73"
##	"-7.604"	"16"	"94.36"	"10.305"
##	"-7.658"	"63"	"151.47"	"11.553"
##	"-7.72"	"22"	"98.51"	"9.911"
##	"-7.965"	"170"	"330.06"	"20.096"
##	"-8.006"	"47"	"137"	"11.242"
##	"-8.089"	"29"	"109.28"	"9.924"
##	"-8.175"	"70"	"165.42"	"11.672"
##	"-8.213"	"20"	"89.92"	"8.513"
##	"-8.329"	"262"	"434.19"	"20.673"
##	"-8.396"	"100"	"199.76"	"11.883"
##	"-8.826"	"236"	"404.73"	"19.118"
##	"-9.085"	"456"	"686.43"	"25.364"
##	"-9.512"	"242"	"397.9"	"16.39"
##	"-9.724"	"22"	"124.79"	"10.571"
##	"-9.923"	"106"	"282.53"	"17.79"
##	"-9.931"	"57"	"178.65"	"12.249"
##	"-9.974"	"333"	"575.67"	"24.329"
##	"-10.133"	"160"	"362.04"	"19.939"
##	"-10.148"	"146"	"308.34"	"15.998"
##	"-10.226"	"449"	"733.17"	"27.788"
##	"-10.449"	"200"	"409.02"	"20.003"
##	"-10.689"	"71"	"206.4"	"12.667"
##	"-11.599"	"165"	"386.03"	"19.055"
##	"-12.849"	"772"	"1230.34"	"35.672"
##	"-13.056"	"1045"	"1523.25"	"36.632"
##	"-13.568"	"215"	"491.62"	"20.388"
##	"-13.621"	"11061"	"12657.17"	"117.187"

```

##          "-13.892" "1963" "2647.39" "49.266"
##          "-16.308" "192" "555.32" "22.278"
##          "-18.169" "7640" "9631.53" "109.614"
##          "-18.829" "4373" "5657.76" "68.232"
##          "-19.592" "677" "1401.18" "36.963"

write.table(cc.enriched.terms, file="output/genes.cc.txt", sep="\t", row.names = F, col.names = F, quote=FALSE)

mf.enriched.terms <- c("GO.ID", "GO.Term", "zscore", "obs", "mean", "std")
for (i in 1:length(mf.enrich.list)) {
  id <- as.character(mf.enrich.list[i])
  term <- Term(GOID(id))
  z.gene <- z.mf[i]
  mf.enriched.terms <- rbind(mf.enriched.terms, c(id, term, z.gene, mf.obs[i], mf.mean[i], mf.std[i]))
}
mf.enriched.terms

##
## mf.enriched.terms "GO.ID"
##          "GO:0008137"
##          "GO:0003954"
##          "GO:0004129"
##          "GO:0004466"
##          "GO:0009055"
##          "GO:0008121"
##          "GO:0051537"
##          "GO:0048039"
##          "GO:0046961"
##          "GO:0004332"
##          "GO:0008553"
##          "GO:0017099"
##          "GO:0045155"
##          "GO:0061609"
##          "GO:0051539"
##          "GO:0048038"
##          "GO:0042625"
##          "GO:0000036"
##          "GO:0061690"
##          "GO:0070991"
##          "GO:0046933"
##          "GO:0047708"
##          "GO:0051287"
##          "GO:0070061"
##          "GO:0000062"
##          "GO:0050660"
##          "GO:0008709"
##          "GO:0030283"
##          "GO:0047015"
##          "GO:0005471"
##          "GO:0045153"
##          "GO:0008320"
##          "GO:0030170"
##          "GO:0022857"
##          "GO:0000035"
##          "GO:0003995"

```

##	"G0:0005525"
##	"G0:0008177"
##	"G0:0034604"
##	"G0:0051082"
##	"G0:0015207"
##	"G0:0015288"
##	"G0:0003924"
##	"G0:0008962"
##	"G0:0015078"
##	"G0:0004741"
##	"G0:0000104"
##	"G0:0015453"
##	"G0:0016491"
##	"G0:0031177"
##	"G0:0060961"
##	"G0:0000253"
##	"G0:0004082"
##	"G0:0016787"
##	"G0:0004591"
##	"G0:0004029"
##	"G0:0008308"
##	"G0:0005200"
##	"G0:0003746"
##	"G0:0015450"
##	"G0:0004740"
##	"G0:0016655"
##	"G0:0016208"
##	"G0:0008184"
##	"G0:0102250"
##	"G0:0102499"
##	"G0:0004619"
##	"G0:0030976"
##	"G0:0016651"
##	"G0:0051087"
##	"G0:0004303"
##	"G0:0008379"
##	"G0:0051538"
##	"G0:0001758"
##	"G0:1903136"
##	"G0:0016887"
##	"G0:0003857"
##	"G0:0050662"
##	"G0:0048029"
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## "NADH dehydrogenase (ubiquinone) activity"
## "NADH dehydrogenase activity"
## "cytochrome-c oxidase activity"
## "long-chain-acyl-CoA dehydrogenase activity"
## "electron transfer activity"
## "ubiquinol-cytochrome-c reductase activity"
## "2 iron, 2 sulfur cluster binding"
## "ubiquinone binding"

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##      "proton-transporting ATPase activity, rotational mechanism"
##      "fructose-bisphosphate aldolase activity"
##      "proton-exporting ATPase activity, phosphorylative mechanism"
##      "very-long-chain-acyl-CoA dehydrogenase activity"
##      "electron transporter, transferring electrons from CoQH2-cytochrome c reductase co
##      "fructose-1-phosphate aldolase activity"
##      "4 iron, 4 sulfur cluster binding"
##      "quinone binding"
##      "ATPase coupled ion transmembrane transporter activity"
##      "acyl carrier activity"
##      "lipoamidase activity"
##      "medium-chain-acyl-CoA dehydrogenase activity"
##      "proton-transporting ATP synthase activity, rotational mechanism"
##      "biotinidase activity"
##      "NAD binding"
##      "fructose binding"
##      "fatty-acyl-CoA binding"
##      "flavin adenine dinucleotide binding"
##      "cholate 7-alpha-dehydrogenase activity"
##      "testosterone dehydrogenase [NAD(P)] activity"
##      "3-hydroxy-2-methylbutyryl-CoA dehydrogenase activity"
##      "ATP:ADP antiporter activity"
##      "electron transporter, transferring electrons within CoQH2-cytochrome c reductase c
##      "protein transmembrane transporter activity"
##      "pyridoxal phosphate binding"
##      "transmembrane transporter activity"
##      "acyl binding"
##      "acyl-CoA dehydrogenase activity"
##      "GTP binding"
##      "succinate dehydrogenase (ubiquinone) activity"
##      "pyruvate dehydrogenase (NAD+) activity"
##      "unfolded protein binding"
##      "adenine transmembrane transporter activity"
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##      "GTPase activity"
##      "phosphatidylglycerophosphatase activity"
##      "proton transmembrane transporter activity"
##      "[pyruvate dehydrogenase (lipoamide)] phosphatase activity"
##      "succinate dehydrogenase activity"
##      "oxidoreduction-driven active transmembrane transporter activity"
##      "oxidoreductase activity"
##      "phosphopantetheine binding"
##      "phospholipase D inhibitor activity"
##      "3-keto sterol reductase activity"
##      "bisphosphoglycerate mutase activity"
##      "hydrolase activity"
##      "oxoglutarate dehydrogenase (succinyl-transferring) activity"
##      "aldehyde dehydrogenase (NAD) activity"
##      "voltage-gated anion channel activity"
##      "structural constituent of cytoskeleton"
##      "translation elongation factor activity"
##      "P-P-bond-hydrolysis-driven protein transmembrane transporter activity"
##      "pyruvate dehydrogenase (acetyl-transferring) kinase activity"
##      "oxidoreductase activity, acting on NAD(P)H, quinone or similar compound as accepto

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##      "AMP binding"
##      "glycogen phosphorylase activity"
##      "linear malto-oligosaccharide phosphorylase activity"
##      "SHG alpha-glucan phosphorylase activity"
##      "phosphoglycerate mutase activity"
##      "thiamine pyrophosphate binding"
##      "oxidoreductase activity, acting on NAD(P)H"
##      "chaperone binding"
##      "estradiol 17-beta-dehydrogenase activity"
##      "thioredoxin peroxidase activity"
##      "3 iron, 4 sulfur cluster binding"
##      "retinal dehydrogenase activity"
##      "cuprous ion binding"
##      "ATPase activity"
##      "3-hydroxyacyl-CoA dehydrogenase activity"
##      "coenzyme binding"
##      "monosaccharide binding"
##      "ATP binding"
##      "succinate-CoA ligase (ADP-forming) activity"
##      "succinate-CoA ligase (GDP-forming) activity"
##      "glutathione disulfide oxidoreductase activity"
##      "NAD-dependent protein deacetylase activity"
##      "magnesium ion binding"
##      "17-beta-ketosteroid reductase activity"
##      "17-beta-hydroxysteroid dehydrogenase (NADP+) activity"
##      "dihydrolipoyl dehydrogenase activity"
##      "lipoamide binding"
##      "heat shock protein binding"
##      "L-lactate dehydrogenase activity"
##      "nucleoside diphosphate kinase activity"
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##      "methyltransferase activity"
##      "fatty acid binding"
##      "aminomethyltransferase activity"
##      "copper ion binding"
##      "FMN binding"
##      "glycerol-3-phosphate dehydrogenase (quinone) activity"
##      "pyruvate dehydrogenase (acetyl-transferring) activity"
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##      "ATPase activity, coupled"
##      "L-serine ammonia-lyase activity"
##      "glutamine-fructose-6-phosphate transaminase (isomerizing) activity"
##      "carbohydrate derivative binding"
##      "NAD+ binding"
##      "enzyme regulator activity"
##      "GDP binding"
##      "isocitrate dehydrogenase (NAD+) activity"
##      "mitochondrion targeting sequence binding"
##      "protein binding involved in protein folding"
##      "beta-tubulin binding"
##      "superoxide dismutase activity"

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## "cysteine-type endopeptidase inhibitor activity involved in apoptotic process"
## "selenocysteine-tRNA ligase activity"
## "phosphopyruvate hydratase activity"
## "CTP synthase activity"
## "ATPase activity, uncoupled"
## "hydro-lyase activity"
## "tRNA binding"
## "FFAT motif binding"
## "L-threonine ammonia-lyase activity"
## "misfolded protein binding"
## "NEDD8 ligase activity"
## "D-glucose transmembrane transporter activity"
## "ribonucleoside-diphosphate reductase activity, thioredoxin disulfide as acceptor"
## "methionine adenosyltransferase activity"
## "NADP binding"
## "amino acid:sodium symporter activity"
## "decanoate-CoA ligase activity"
## "glucokinase activity"
## "fructokinase activity"
## "mannokinase activity"
## "oxoglutarate dehydrogenase (NAD+) activity"
## "glucose binding"
## "aldehyde dehydrogenase [NAD(P)+] activity"
## "oxygen-dependent protoporphyrinogen oxidase activity"
## "molecular_function"
## "ornithine-oxo-acid transaminase activity"
## "protein disulfide oxidoreductase activity"
## "transporter activity"
## "C3HC4-type RING finger domain binding"
## "nucleotide binding"
## "phosphoglucomutase activity"
## "inorganic cation transmembrane transporter activity"
## "hydroxymethylglutaryl-CoA synthase activity"
## "isocitrate dehydrogenase (NADP+) activity"
## "UTP:glucose-1-phosphate uridylyltransferase activity"
## "pyrimidine ribonucleotide binding"
## "glycerol-3-phosphate dehydrogenase [NAD+] activity"
## "very-long-chain-(S)-2-hydroxy-acid oxidase activity"
## "long-chain-(S)-2-hydroxy-long-chain-acid oxidase activity"
## "medium-chain-(S)-2-hydroxy-acid oxidase activity"
## "alkyl hydroperoxide reductase activity"
## "aconitate hydratase activity"
## "aminoacyl-tRNA editing activity"
## "pyruvate carboxylase activity"
## "pyruvate dehydrogenase activity"
## "inorganic diphosphatase activity"
## "threonine-tRNA ligase activity"
## "beta2-adrenergic receptor activity"
## "amino acid binding"
## "long-chain fatty acid-CoA ligase activity"
## "dihydrolipoyllysine-residue acetyltransferase activity"
## "biotin binding"
## "fructose-6-phosphate binding"
## "6-phosphofructokinase activity"

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## "Rab GDP-dissociation inhibitor activity"
## "S-adenosyl-L-methionine binding"
## "glycerol-3-phosphate dehydrogenase [NAD(P)+] activity"
## "alcohol dehydrogenase [NAD(P)+] activity"
## "GTPase activator activity"
## "potassium ion leak channel activity"
## "alcohol dehydrogenase (NADP+) activity"
## "argininosuccinate lyase activity"
## "glyceraldehyde-3-phosphate dehydrogenase (NAD+) (non-phosphorylating) activity"
## "cofactor binding"
## "mitochondrial ribosome binding"
## "apolipoprotein A-I binding"
## "arsenate reductase (glutaredoxin) activity"
## "cysteine desulfurase activity"
## "GTP cyclohydrolase I activity"
## "glucose transmembrane transporter activity"
## "alditol:NADP+ 1-oxidoreductase activity"
## "dolichyl-phosphate beta-D-mannosyltransferase activity"
## "glucose-6-phosphate isomerase activity"
## "intramolecular transferase activity"
## "1-acylglycerol-3-phosphate O-acyltransferase activity"
## "(S)-2-hydroxy-acid oxidase activity"
## "IMP dehydrogenase activity"
## "fatty-acyl-CoA synthase activity"
## "fatty acid ligase activity"
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## "acyl-CoA ligase activity"
## "glutathione transferase activity"
## "acetate-CoA ligase activity"
## "N-acetylgalactosamine kinase activity"
## "Hsp70 protein binding"
## "3-dehydrosphinganine reductase activity"
## "complement component C3a binding"
## "ornithine carbamoyltransferase activity"
## "ATP-dependent peptidase activity"
## "succinate-hydroxymethylglutarate CoA-transferase activity"
## "dolichyl-phosphate-mannose-protein mannosyltransferase activity"
## "ATPase binding"
## "large conductance calcium-activated potassium channel activity"
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## "L-amino acid transmembrane transporter activity"
## "adenine binding"
## "adenine phosphoribosyltransferase activity"
## "glutamate dehydrogenase (NAD+) activity"
## "glutamate dehydrogenase [NAD(P)+] activity"
## "metalloendopeptidase activity"
## "thyrotropin-releasing hormone receptor binding"
## "MHC class I protein binding"
## "UDP-glucose:hexose-1-phosphate uridylyltransferase activity"

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## "benzaldehyde dehydrogenase (NAD+) activity"
## "4-hydroxybenzoate decaprenyltransferase activity"
## "transferase activity, transferring alkyl or aryl (other than methyl) groups"
## "4-hydroxybenzoate nonaprenyltransferase activity"
## "nitrite reductase (NO-forming) activity"
## "carbon monoxide binding"
## "retromer complex binding"
## "manganese-transporting ATPase activity"
## "phosphatidylserine decarboxylase activity"
## "superoxide dismutase copper chaperone activity"
## "clathrin light chain binding"
## "translation initiation factor activity"
## "citrate (Si)-synthase activity"
## "cystathionine beta-synthase activity"
## "cysteine synthase activity"
## "vitamin binding"
## "dihydrolipoyllysine-residue succinyltransferase activity"
## "inositol-3-phosphate synthase activity"
## "selenomethionine adenosyltransferase activity"
## "adenyl nucleotide binding"
## "NADP-retinol dehydrogenase activity"
## "ferrochelataase activity"
## "oxidoreductase activity, acting on NAD(P)H, heme protein as acceptor"
## "L-aspartate:2-oxoglutarate aminotransferase activity"
## "acidic amino acid transmembrane transporter activity"
## "calcium-activated potassium channel activity"
## "cardiolipin binding"
## "cytosolic dipeptidase activity"
## "alanylglutamate dipeptidase activity"
## "modified amino acid binding"
## "cytoskeletal protein binding"
## "fumarate hydratase activity"
## "phosphogluconate dehydrogenase (decarboxylating) activity"
## "malate dehydrogenase (NADP+) activity"
## "kynurenine-oxoglutarate transaminase activity"
## "translation factor activity, RNA binding"
## "leucine-tRNA ligase activity"
## "bile acid binding"
## "glutathione oxidoreductase activity"
## "ionotropic glutamate receptor binding"
## "cAMP-dependent protein kinase inhibitor activity"
## "choline-phosphate cytidyltransferase activity"
## "(R)-2-hydroxyglutarate dehydrogenase activity"
## "complement component C3b binding"
## "single thymine insertion binding"
## "nitric oxide binding"
## "spermidine synthase activity"
## "phosphate:proton symporter activity"
## "preprotein binding"
## "arachidonate-CoA ligase activity"
## "lipoic acid binding"
## "dihydrolipoyllysine-residue (2-methylpropanoyl)transferase activity"
## "cyclosporin A binding"
## "protein serine/threonine phosphatase activity"

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##      "galactose binding"
##      "phosphoribosylamine-glycine ligase activity"
##      "phosphoribosylformylglycinamide cyclo-ligase activity"
##      "phosphoribosylglycinamide formyltransferase activity"
##      "carboxylic acid binding"
##      "glycolipid binding"
##      "3',5'-cyclic-GMP phosphodiesterase activity"
##      "calcium-dependent protein kinase activity"
##      "L-malate dehydrogenase activity"
##      "cAMP binding"
##      "ribosome binding"
##      "peptidyl-prolyl cis-trans isomerase activity"
##      "purine nucleobase binding"
##      "protein homodimerization activity"
##      "P2Y1 nucleotide receptor binding"
##      "cyclic nucleotide binding"
##      "dinucleotide repeat insertion binding"
##      "inorganic phosphate transmembrane transporter activity"
##      "mannose-1-phosphate guanylyltransferase activity"
##      "dipeptidase activity"
##      "ubiquitin protein ligase binding"
##      "branched-chain-amino-acid transaminase activity"
##      "L-leucine transaminase activity"
##      "L-valine transaminase activity"
##      "L-isoleucine transaminase activity"
##      "biotin carboxylase activity"
##      "transketolase activity"
##      "profilin binding"
##      "adenosylhomocysteinase activity"
##      "high-density lipoprotein particle binding"
##      "hexokinase activity"
##      "TBP-class protein binding"
##      "beta-1 adrenergic receptor binding"
##      "ADP binding"
##      "ryanodine-sensitive calcium-release channel activity"
##      "guanine/thymine mispair binding"
##      "NEDD8-specific protease activity"
##      "transferase activity, transferring pentosyl groups"
##      "metallopeptidase activity"
##      "N(6)-L-threonylcarbamoyladenine synthase activity"
##      "macrolide binding"
##      "aspartic-type endopeptidase inhibitor activity"
##      "peptidyl-cysteine S-nitrosylase activity"
##      "GDP-dissociation inhibitor activity"
##      "protein tyrosine/serine/threonine phosphatase activity"
##      "glycerophosphocholine cholinephosphodiesterase activity"
##      "UDP-N-acetylglucosamine 4-epimerase activity"
##      "UDP-glucose 4-epimerase activity"
##      "retinal binding"
##      "sedoheptulose-7-phosphate:D-glyceraldehyde-3-phosphate glyceronetransferase activity"
##      "lutropin-choriogonadotropic hormone receptor binding"
##      "calcium-transporting ATPase activity involved in regulation of cardiac muscle cell contraction"
##      "mismatched DNA binding"
##      "hexaprenyldihydroxybenzoate methyltransferase activity"

```

```

## "2-polyprenyl-6-methoxy-1,4-benzoquinone methyltransferase activity"
## "3-demethylubiquinone-9 3-O-methyltransferase activity"
## "decaprenyldihydroxybenzoate methyltransferase activity"
## "3-demethylubiquinone-10 3-O-methyltransferase activity"
## "mRNA CDS binding"
## "adenosine kinase activity"
## "3-chloroallyl aldehyde dehydrogenase activity"
## "fructose 1,6-bisphosphate 1-phosphatase activity"
## "pyrroline-5-carboxylate reductase activity"
## "L-aspartate transmembrane transporter activity"
## "heme binding"
## "acetyl-CoA carboxylase activity"
## "flavin-linked sulfhydryl oxidase activity"
## "UDP-glycosyltransferase activity"
## "ethanol binding"
## "neurotrophin p75 receptor binding"
## "disordered domain specific binding"
## "aspartate binding"
## "androgen binding"
## "glutathione peroxidase activity"
## "sodium channel activity"
## "aspartate carbamoyltransferase activity"
## "carbamoyl-phosphate synthase (ammonia) activity"
## "carbamoyl-phosphate synthase (glutamine-hydrolyzing) activity"
## "dihydroorotase activity"
## "valine-tRNA ligase activity"
## "apolipoprotein binding"
## "amino acid transmembrane transporter activity"
## "phosphorylase activity"
## "iron ion transmembrane transporter activity"
## "protein phosphatase 2B binding"
## "nuclear import signal receptor activity"
## "protein histidine kinase activity"
## "ubiquitin-specific protease activity involved in negative regulation of retrograde"
## "cAMP-dependent protein kinase regulator activity"
## "pyruvate kinase activity"
## "3-oxo-arachidoyl-CoA reductase activity"
## "3-oxo-behenoyl-CoA reductase activity"
## "3-oxo-lignoceroyl-CoA reductase activity"
## "3-oxo-cerotoyl-CoA reductase activity"
## "glutamate-tRNA(Gln) ligase activity"
## "glyceraldehyde-3-phosphate dehydrogenase (NAD+) (phosphorylating) activity"
## "acetyl-CoA C-acyltransferase activity"
## "peroxisome matrix targeting signal-2 binding"
## "FK506 binding"
## "glycerophosphodiester phosphodiesterase activity"
## "isovaleryl-CoA dehydrogenase activity"
## "alpha-ketoacid dehydrogenase activity"
## "3-methyl-2-oxobutanoate dehydrogenase (2-methylpropanoyl-transferring) activity"
## "ketosteroid monooxygenase activity"
## "ATP-dependent 5'-3' DNA helicase activity"
## "ferredoxin-NADP+ reductase activity"
## "NADPH-adrenodoxin reductase activity"
## "NAD+ ADP-ribosyltransferase activity"

```

```

##      "aspartic endopeptidase activity, intramembrane cleaving"
##      "L-cysteine:2-oxoglutarate aminotransferase activity"
##      "thyroid hormone binding"
##      "Rho GDP-dissociation inhibitor activity"
##      "steroid dehydrogenase activity"
##      "2-aminoadipate transaminase activity"
##      "acetyl-CoA binding"
##      "neurotrophin receptor activity"
##      "receptor activator activity"
##      "antioxidant activity"
##      "denatured protein binding"
##      "4-hydroxyglutamate transaminase activity"
##      "electron-transferring-flavoprotein dehydrogenase activity"
##      "nerve growth factor receptor activity"
##      "cytochrome-b5 reductase activity, acting on NAD(P)H"
##      "isomerase activity"
##      "L-glutamate transmembrane transporter activity"
##      "mannose-6-phosphate isomerase activity"
##      "Ran guanyl-nucleotide exchange factor activity"
##      "outward rectifier potassium channel activity"
##      "adenyl-nucleotide exchange factor activity"
##      "glycolate oxidase activity"
##      "glyoxylate oxidase activity"
##      "ubiquitin-specific protease binding"
##      "3-oxoacid CoA-transferase activity"
##      "cAMP response element binding"
##      "glycine hydroxymethyltransferase activity"
##      "L-allo-threonine aldolase activity"
##      "transferase activity, transferring acyl groups other than amino-acyl groups"
##      "aspartic-type endopeptidase activity"
##      "phosphatidylinositol-4,5-bisphosphate 5-phosphatase activity"
##      "peptidoglycan binding"
##      "histone deacetylase inhibitor activity"
##      "transaminase activity"
##      "alpha-tubulin binding"
##      "neuroligin family protein binding"
##      "oxidoreductase activity, acting on the CH-CH group of donors"
##      "cobalt ion binding"
##      "BH domain binding"
##      "glutathione dehydrogenase (ascorbate) activity"
##      "methylarsonate reductase activity"
##      "threonine synthase activity"
##      "adrenergic receptor binding"
##      "protein-arginine omega-N monomethyltransferase activity"
##      "sulfate transmembrane transporter activity"
##      "K48-linked polyubiquitin modification-dependent protein binding"
##      "protein disulfide isomerase activity"
##      "[3-methyl-2-oxobutanoate dehydrogenase (acetyl-transferring)] kinase activity"
##      "aspartate-tRNA ligase activity"
##      "voltage-gated potassium channel activity"
##      "aminoacylase activity"
##      "aldo-keto reductase (NADP) activity"
##      "GPI-linked ephrin receptor activity"
##      "clathrin-uncoating ATPase activity"

```

```

##      "GABA receptor binding"
##      "poly(A) binding"
##      "serine-type exopeptidase activity"
##      "D-serine ammonia-lyase activity"
##      "threonine racemase activity"
##      "serine racemase activity"
##      "gap junction channel activity involved in cell communication by electrical coupling"
##      "gap junction channel activity involved in cardiac conduction electrical coupling"
##      "tyrosine 3-monooxygenase activator activity"
##      "L-dopa decarboxylase activator activity"
##      "protein deglycase activity"
##      "mercury ion binding"
##      "neurotrophin binding"
##      "long-chain-3-hydroxyacyl-CoA dehydrogenase activity"
##      "H3K27me3 modified histone binding"
##      "Ran GTPase binding"
##      "kininogen binding"
##      "deoxyhypusine monooxygenase activity"
##      "N-acetylmuramoyl-L-alanine amidase activity"
##      "serine binding"
##      "carnitine O-palmitoyltransferase activity"
##      "5S rRNA binding"
##      "gap junction channel activity"
##      "ribosomal small subunit binding"
##      "uridine kinase activity"
##      "malic enzyme activity"
##      "acetylcholine receptor binding"
##      "serine-pyruvate transaminase activity"
##      "metalloaminopeptidase activity"
##      "double-strand/single-strand DNA junction binding"
##      "alanine-glyoxylate transaminase activity"
##      "very long-chain fatty acid-CoA ligase activity"
##      "acetyl-CoA C-acetyltransferase activity"
##      "tau protein binding"
##      "nerve growth factor binding"
##      "RNA polymerase II sequence-specific DNA-binding transcription factor binding"
##      "methylcrotonoyl-CoA carboxylase activity"
##      "cAMP response element binding protein binding"
##      "histidine-tRNA ligase activity"
##      "dynein complex binding"
##      "peptide binding"
##      "heteroduplex DNA loop binding"
##      "dimethylallyltranstransferase activity"
##      "geranyltranstransferase activity"
##      "eukaryotic initiation factor 4G binding"
##      "3-oxoacyl-[acyl-carrier-protein] synthase activity"
##      "peroxisome proliferator activated receptor binding"
##      "ion channel binding"
##      "nicotinamide-nucleotide adenyltransferase activity"
##      "dicarboxylic acid transmembrane transporter activity"
##      "mitochondrial promoter sequence-specific DNA binding"
##      "lipid kinase activity"
##      "3'-tyrosyl-DNA phosphodiesterase activity"
##      "GTPase regulator activity"

```

```

##      "arginyltransferase activity"
##      "ribonucleoside binding"
##      "glucuronosyltransferase activity"
##      "malate dehydrogenase (decarboxylating) (NAD+) activity"
##      "malate dehydrogenase (decarboxylating) (NADP+) activity"
##      "primary amine oxidase activity"
##      "thiosulfate transmembrane transporter activity"
##      "oxaloacetate transmembrane transporter activity"
##      "malate transmembrane transporter activity"
##      "dinucleotide insertion or deletion binding"
##      "succinate transmembrane transporter activity"
##      "phosphoribosylformylglycinamide synthase activity"
##      "carboxypeptidase activity"
##      "Lys63-specific deubiquitinase activity"
##      "gluconolactonase activity"
##      "adenylate kinase activity"
##      "very-long-chain enoyl-CoA reductase activity"
##      "secondary active transmembrane transporter activity"
##      "carbonate dehydratase activity"
##      "ubiquitin activating enzyme activity"
##      "ATP adenylyltransferase activity"
##      "lysine-tRNA ligase activity"
##      "neutral amino acid transmembrane transporter activity"
##      "argininosuccinate synthase activity"
##      "lysophosphatidic acid phosphatase activity"
##      "kinesin binding"
##      "oxidoreductase activity, oxidizing metal ions with flavin as acceptor"
##      "potassium channel activity"
##      "benzodiazepine receptor activity"
##      "peroxiredoxin activity"
##      "hydroxymethylglutaryl-CoA lyase activity"
##      "protein-containing complex binding"
##      "oxidized purine DNA binding"
##      "peroxidase activity"
##      "ion transmembrane transporter activity"
##      "tRNA (guanosine-2'-O-)-methyltransferase activity"
##      "tRNA (cytosine-2'-O-)-methyltransferase activity"
##      "poly(U) RNA binding"
##      "complement component C1q binding"
##      "MAP kinase kinase activity"
##      "glutamine-tRNA ligase activity"
##      "protein transporter activity"
##      NA
##      "proteasome-activating ATPase activity"
##      "arginase activity"
##      "calcium-dependent protein serine/threonine phosphatase activity"
##      "structural constituent of postsynaptic actin cytoskeleton"
##      "proteinase activated receptor binding"
##      "structural constituent of ribosome"
##      "myosin binding"
##      "phosphatidate cytidyltransferase activity"
##      "glucosaminyl-phosphatidylinositol O-acyltransferase activity"
##      "organic acid binding"
##      "MHC class II protein complex binding"

```

```

##      "FAD binding"
##      "endoribonuclease inhibitor activity"
##      "indanol dehydrogenase activity"
##      "long-chain fatty acyl-CoA binding"
##      "phenanthrene 9,10-monooxygenase activity"
##      "trans-1,2-dihydrobenzene-1,2-diol dehydrogenase activity"
##      "protein kinase A catalytic subunit binding"
##      "GTP-dependent protein binding"
##      "glutamate-tRNA ligase activity"
##      "palmitoyl-(protein) hydrolase activity"
##      "peptide disulfide oxidoreductase activity"
##      "calcium:proton antiporter activity"
##      "propanoyl-CoA C-acyltransferase activity"
##      "propionyl-CoA C2-trimethyltridecanoyltransferase activity"
##      "Tat protein binding"
##      "glycogen debranching enzyme activity"
##      "4-alpha-glucanotransferase activity"
##      "amylase-1,6-glucosidase activity"
##      "beta-maltose 4-alpha-glucanotransferase activity"
##      "BH2 domain binding"
##      "endopeptidase activator activity"
##      "carboxy-lyase activity"
##      "1,5-anhydro-D-fructose reductase activity"
##      "peptide-methionine (S)-S-oxide reductase activity"
##      "oxidoreductase activity, acting on peroxide as acceptor"
##      "L-glucuronate reductase activity"
##      "Rho guanyl-nucleotide exchange factor activity"
##      "glutathione binding"
##      "ligase activity"
##      "D-lactate dehydrogenase (cytochrome) activity"
##      "protein tag"
##      "NF-kappaB-inducing kinase activity"
##      "phosphatidylinositol bisphosphate phosphatase activity"
##      "exopeptidase activity"
##      "tRNA (guanine-N1)-methyltransferase activity"
##      "oxaloacetate decarboxylase activity"
##      "phenylalanine-tRNA ligase activity"
##      "GTP-dependent protein kinase activity"
##      "peroxidase inhibitor activity"
##      "lipopolysaccharide binding"
##      "iron-sulfur cluster binding"
##      "catalase activity"
##      "oxidoreductase activity, acting on paired donors, with incorporation or reduction"
##      "N-methyltransferase activity"
##      "dolichyl-diphosphooligosaccharide-protein glycotransferase activity"
##      "glucosylceramidase activity"
##      "beta-endorphin binding"
##      "deubiquitinase activator activity"
##      "IMP cyclohydrolase activity"
##      "phosphoribosylaminoimidazolecarboxamide formyltransferase activity"
##      "antiporter activity"
##      "protein carboxyl O-methyltransferase activity"
##      "CTP binding"
##      "ribonuclease inhibitor activity"

```

```

##      "cystathionine gamma-synthase activity"
##      "cystathionine gamma-lyase activity"
##      "L-cystine L-cysteine-lyase (deaminating)"
##      "homocysteine desulfhydrase activity"
##      "L-cysteine desulfhydrase activity"
##      "RNA polymerase I transcription factor binding"
##      "tRNA (guanine(9)-N(1))-methyltransferase activity"
##      "adenylate cyclase binding"
##      "sulfonylurea receptor binding"
##      "calcium channel inhibitor activity"
##      "CoA-ligase activity"
##      "transferase activity"
##      "double-stranded RNA binding"
##      "5'-3' DNA helicase activity"
##      "structural molecule activity"
##      "UTP binding"
##      "ion antiporter activity involved in regulation of presynaptic membrane potential"
##      "1-alkyl-2-acetylglycerophosphocholine esterase activity"
##      "receptor serine/threonine kinase binding"
##      "peroxisome membrane class-1 targeting sequence binding"
##      "hyaluronic acid binding"
##      "isoleucine-tRNA ligase activity"
##      "beta-catenin destruction complex binding"
##      "sulfite oxidase activity"
##      "oleic acid binding"
##      "prenylated protein tyrosine phosphatase activity"
##      "GMP reductase activity"
##      "calcium activated cation channel activity"
##      "pyrimidine nucleotide-sugar transmembrane transporter activity"
##      "5-formyltetrahydrofolate cyclo-ligase activity"
##      "mRNA (2'-O-methyladenosine-N6-)-methyltransferase activity"
##      "geranylgeranyl reductase activity"
##      "protein-arginine omega-N asymmetric methyltransferase activity"
##      "rRNA (guanosine-2'-O-)-methyltransferase activity"
##      "palmitoyl-CoA hydrolase activity"
##      "Atg8 ligase activity"
##      "asparaginase activity"
##      "serine-type peptidase activity"
##      "alpha-ketoglutarate transmembrane transporter activity"
##      "prostaglandin-E synthase activity"
##      "tRNA methyltransferase activity"
##      "membrane insertase activity"
##      "calmodulin-dependent protein phosphatase activity"
##      "chlordecone reductase activity"
##      "uniporter activity"
##      "androsterone dehydrogenase (B-specific) activity"
##      "transcription factor activity, RNA polymerase II core promoter sequence-specific"
##      "N,N-dimethylaniline monooxygenase activity"
##      "tubulin deacetylase activity"
##      "ribose phosphate diphosphokinase activity"
##      "translation activator activity"
##      "sulfur dioxygenase activity"
##      "kinase binding"
##      "structural constituent of postsynapse"

```

```

##      "intermediate filament binding"
##      "tumor necrosis factor-activated receptor activity"
##      "tumor necrosis factor binding"
##      "bile acid transmembrane transporter activity"
##      "ligase activity, forming carbon-carbon bonds"
##      "17-alpha,20-alpha-dihydroxypregn-4-en-3-one dehydrogenase activity"
##      "bis(5'-adenosyl)-triphosphatase activity"
##      "enoyl-CoA hydratase activity"
##      "ARF guanyl-nucleotide exchange factor activity"
##      "potassium ion binding"
##      "phosphate ion binding"
##      "procollagen-proline 4-dioxygenase activity"
##      "MutLalpha complex binding"
##      "peptidyl-proline 4-dioxygenase activity"
##      "carbon-sulfur lyase activity"
##      "ATPase activity, coupled to transmembrane movement of substances"
##      "low-density lipoprotein particle receptor binding"
##      "identical protein binding"
##      "tryptophan-tRNA ligase activity"
##      "coproporphyrinogen oxidase activity"
##      "nitrilase activity"
##      "5'-3' exoribonuclease activity"
##      "spermine synthase activity"
##      "ER retention sequence binding"
##      "peptidoglycan receptor activity"
##      "glycine binding"
##      "G-quadruplex DNA binding"
##      "nuclear localization sequence binding"
##      "oligosaccharyl transferase activity"
##      "pantothenate kinase activity"
##      "asparagine-tRNA ligase activity"
##      "arsenite transmembrane transporter activity"
##      "molybdopterin cofactor binding"
##      "delta4-3-oxosteroid 5beta-reductase activity"
##      "drug transmembrane transporter activity"
##      "diphthine synthase activity"
##      "D-lactate dehydrogenase activity"
##      "ribosomal large subunit binding"
##      "molybdenum ion binding"
##      "androsterone dehydrogenase activity"
##      "protein antigen binding"
##      "phosphoglycerate kinase activity"
##      "calcium-transporting ATPase activity involved in regulation of postsynaptic cytosol"
##      "phospholipase binding"
##      "porphobilinogen synthase activity"
##      "virion binding"
##      "mevalonate transmembrane transporter activity"
##      "aspartate-tRNA(Asn) ligase activity"
##      "dATP binding"
##      "calcium-independent phospholipase A2 activity"
##      "queuine tRNA-ribosyltransferase activity"
##      "ribonuclease III activity"
##      "glycerone kinase activity"
##      "FAD-AMP lyase (cyclizing) activity"

```



```

##      "triokinase activity"
##      "calcium-independent protein kinase C activity"
##      "KDEL sequence binding"
##      "titin Z domain binding"
##      "sn-glycerol-3-phosphate:ubiquinone-8 oxidoreductase activity"
##      "aminopeptidase activity"
##      "alkylbase DNA N-glycosylase activity"
##      "DNA-3-methyladenine glycosylase activity"
##      "DNA-7-methylguanine glycosylase activity"
##      "DNA-7-methyladenine glycosylase activity"
##      "DNA-3-methylguanine glycosylase activity"
##      "lactate transmembrane transporter activity"
##      "microtubule-severing ATPase activity"
##      "calcium-transporting ATPase activity involved in regulation of presynaptic cytosol"
##      "norepinephrine binding"
##      "prolactin receptor binding"
##      "sulfate binding"
##      "myosin V binding"
##      "creatine kinase activity"
##      "phosphatidylethanolamine binding"
##      "peptide-methionine (R)-S-oxide reductase activity"
##      "endopeptidase activity"
##      "thioredoxin-disulfide reductase activity"
##      "acid phosphatase activity"
##      "carbon-carbon lyase activity"
##      "BAT3 complex binding"
##      "alanine-tRNA ligase activity"
##      "citrate transmembrane transporter activity"
##      "glycine dehydrogenase (decarboxylating) activity"
##      "secondary active sulfate transmembrane transporter activity"
##      "S-formylglutathione hydrolase activity"
##      "pyridoxal binding"
##      "tRNA-specific ribonuclease activity"
##      "DNA helicase activity"
##      "NAD(P)+ transhydrogenase (B-specific) activity"
##      "NAD(P)+ transhydrogenase activity"
##      "NAD(P)+ transhydrogenase (AB-specific) activity"
##      "macrophage migration inhibitory factor binding"
##      "MAP kinase activity"
##      "thiamine transmembrane transporter activity"
##      "glucosamine-6-phosphate deaminase activity"
##      "methylumbelliferyl-acetate deacetylase activity"
##      "polyubiquitin modification-dependent protein binding"
##      "sphinganine-1-phosphate aldolase activity"
##      "phosphoserine residue binding"
##      "receptor inhibitor activity"
##      "L-methionine-(R)-S-oxide reductase activity"
##      "histone-arginine N-methyltransferase activity"
##      "diiodophenylpyruvate reductase activity"
##      "peptidase inhibitor activity"
##      "UFM1 activating enzyme activity"
##      "18S rRNA (adenine(1779)-N(6)/adenine(1780)-N(6))-dimethyltransferase activity"
##      "ferroxidase activity"
##      "cupric ion binding"

```

```

## "Ser-tRNA(Ala) hydrolase activity"
## "anion transmembrane transporter activity"
## "2-octaprenyl-6-methoxy-1,4-benzoquinone methylase activity"
## "2-decaprenyl-6-methoxy-1,4-benzoquinone methyltransferase activity"
## "C-X3-C chemokine binding"
## "anion:anion antiporter activity"
## "testosterone 6-beta-hydroxylase activity"
## "lysophospholipase activity"
## "FATZ binding"
## "inward rectifier potassium channel activity"
## "ATP-dependent protein binding"
## "dol-P-Man:Man(7)GlcNAc(2)-PP-Dol alpha-1,6-mannosyltransferase activity"
## "cyclic-di-GMP binding"
## "cyclic-GMP-AMP binding"
## "lipase inhibitor activity"
## "3'-5' RNA helicase activity"
## "iron chaperone activity"
## "phosphatidylcholine binding"
## "sodium:potassium-exchanging ATPase activity"
## "RNA trimethylguanosine synthase activity"
## "hydrolase activity, acting on ester bonds"
## "BH3 domain binding"
## "selenium binding"
## "adenylylsulfate kinase activity"
## "sulfate adenylyltransferase (ATP) activity"
## "HMG box domain binding"
## "AMP-activated protein kinase activity"
## "endopolyphosphatase activity"
## "diphosphoinositol-polyphosphate diphosphatase activity"
## "bis(5'-adenosyl)-hexaphosphatase activity"
## "bis(5'-adenosyl)-pentaphosphatase activity"
## "inositol diphosphate tetrakisphosphate diphosphatase activity"
## "inositol bisdiphosphate tetrakisphosphate diphosphatase activity"
## "inositol diphosphate pentakisphosphate diphosphatase activity"
## "inositol-1-diphosphate-2,3,4,5,6-pentakisphosphate diphosphatase activity"
## "inositol-3-diphosphate-1,2,4,5,6-pentakisphosphate diphosphatase activity"
## "inositol-5-diphosphate-1,2,3,4,6-pentakisphosphate diphosphatase activity"
## "inositol-1,5-bisdiphosphate-2,3,4,6-tetrakisphosphate 1-diphosphatase activity"
## "inositol-1,5-bisdiphosphate-2,3,4,6-tetrakisphosphate 5-diphosphatase activity"
## "inositol-3,5-bisdiphosphate-2,3,4,6-tetrakisphosphate 5-diphosphatase activity"
## "symporter activity"
## NA
## "epidermal growth factor-activated receptor activity"
## "L-serine transmembrane transporter activity"
## "ionotropic glutamate receptor activity"
## "pyruvate transmembrane transporter activity"
## "IkappaB kinase activity"
## "aminocarboxymuconate-semialdehyde decarboxylase activity"
## "nucleotide-sugar transmembrane transporter activity"
## "amidinotransferase activity"
## "glycine amidinotransferase activity"
## "delta3,5-delta2,4-dienoyl-CoA isomerase activity"
## "laminin receptor activity"
## "neuregulin receptor activity"

```

```

##      "dynactin binding"
##      "UDP-glucuronic acid transmembrane transporter activity"
##      "1-aminocyclopropane-1-carboxylate synthase activity"
##      "BMP receptor activity"
##      "leucine binding"
##      "O-acyltransferase activity"
##      "protoheme IX farnesyltransferase activity"
##      "oxidoreductase activity, acting on the aldehyde or oxo group of donors, NAD or NA
##      "benzaldehyde dehydrogenase activity"
##      "arginine-tRNA ligase activity"
##      "U6 snRNA 3'-end binding"
##      "protein adenyllylhydrolase activity"
##      "23S rRNA (adenine(1618)-N(6))-methyltransferase activity"
##      "protein adenyllyltransferase activity"
##      "U6 snRNA (adenine-(43)-N(6))-methyltransferase activity"
##      "saccharopine dehydrogenase activity"
##      "saccharopine dehydrogenase (NADP+, L-lysine-forming) activity"
##      "saccharopine dehydrogenase (NAD+, L-glutamate-forming) activity"
##      "butyryl-CoA dehydrogenase activity"
##      "DNA ligase (ATP) activity"
##      "arylformamidase activity"
##      "cysteine transmembrane transporter activity"
##      "L-glutamine transmembrane transporter activity"
##      "lipase binding"
##      "telomerase inhibitor activity"
##      "methylmalonate-semialdehyde dehydrogenase (acylating) activity"
##      "open rectifier potassium channel activity"
##      "malonate-semialdehyde dehydrogenase (acetylating) activity"
##      "drug:proton antiporter activity"
##      "peroxisome targeting sequence binding"
##      "peroxisome matrix targeting signal-1 binding"
##      "heme oxygenase (decyclizing) activity"
##      "heme transporter activity"
##      "inositol-1,4,5-trisphosphate 6-kinase activity"
##      "inositol tetrakisphosphate 3-kinase activity"
##      "homogentisate 1,2-dioxygenase activity"
##      "quercetin 2,3-dioxygenase activity"
##      "inositol tetrakisphosphate 5-kinase activity"
##      "co-receptor binding"
##      "xenobiotic transmembrane transporting ATPase activity"
##      "6,7-dihydropteridine reductase activity"
##      "thioether S-methyltransferase activity"
##      "sulfonylurea receptor activity"
##      "choline dehydrogenase activity"
##      "amine N-methyltransferase activity"
##      "S-adenosyl-L-methionine:beta-alanine N-methyltransferase activity"
##      "rRNA (adenine-N6,N6-)-dimethyltransferase activity"
##      "oxidoreductase activity, acting on the CH-NH2 group of donors, NAD or NADP as acco
##      "thiomorpholine-carboxylate dehydrogenase activity"
##      "phospholipase A1 activity"
##      "tubulin binding"
##      "protein-disulfide reductase activity"
##      "3-hydroxyisobutyrate dehydrogenase activity"
##      "polysaccharide binding"

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## "ligand-gated ion channel activity"
## "triglyceride lipase activity"
## "RNA cap binding"
## "diacylglycerol kinase activity"
## "acid sphingomyelin phosphodiesterase activity"
## "glycine-tRNA ligase activity"
## "calcium ion transmembrane transporter activity"
## "nickel cation binding"
## "UDP-glucuronate decarboxylase activity"
## "RNA polymerase II C-terminal domain phosphoserine binding"
## "endoribonuclease activity, cleaving siRNA-paired mRNA"
## "3' overhang single-stranded DNA endodeoxyribonuclease activity"
## "beta-glucosidase activity"
## "protein C-terminal methylesterase activity"
## "cobalamin binding"
## "death domain binding"
## "bis(5'-nucleosyl)-tetrphosphatase (asymmetrical) activity"
## "fumarylacetoacetase activity"
## "scaffold protein binding"
## "benzodiazepine receptor binding"
## "4-hydroxy-2-oxoglutarate aldolase activity"
## "structural constituent of eye lens"
## "magnesium ion transmembrane transporter activity"
## "transcription factor activity, RNA polymerase II proximal promoter sequence-speci."
## "nucleotidyltransferase activity"
## "glycine C-acetyltransferase activity"
## "leak channel activity"
## "phospholipase A2 activity (consuming 1,2-dipalmitoylphosphatidylcholine)"
## "phospholipase A2 activity consuming 1,2-dioleoylphosphatidylethanolamine)"
## "phosphoric diester hydrolase activity"
## "rRNA (adenine) methyltransferase activity"
## "dodecenoyl-CoA delta-isomerase activity"
## "JUN kinase kinase kinase activity"
## "inositol tetrakisphosphate 6-kinase activity"
## "JUN kinase phosphatase activity"
## "oxygen binding"
## "endoribonuclease activity, cleaving miRNA-paired mRNA"
## "trimethylamine monooxygenase activity"
## "gap junction hemi-channel activity"
## "trans-2-enoyl-CoA reductase (NADPH) activity"
## "guanyl ribonucleotide binding"
## "cAMP-dependent protein kinase activity"
## "NEDD8 activating enzyme activity"
## "ceramide kinase activity"
## "pyridoxamine-phosphate oxidase activity"
## "guanyl-nucleotide exchange factor activity"
## "coumarin 7-hydroxylase activity"
## "interleukin-9 receptor activity"
## "dTDP-glucose 4,6-dehydratase activity"
## "copper chaperone activity"
## "glyceraldehyde oxidoreductase activity"
## "methionine synthase activity"
## "thymidylate kinase activity"
## "FHA domain binding"

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```

## "channel activity"
## "1-phosphatidylinositol-5-phosphate 4-kinase activity"
## "trans-hexaprenyltranstransferase activity"
## "glycerol-3-phosphate 0-acyltransferase activity"
## "nicotinate phosphoribosyltransferase activity"
## "acetate CoA-transferase activity"
## "trans-octaprenyltranstransferase activity"
## "sn-1-glycerol-3-phosphate C16:0-DCA-CoA acyl transferase activity"
## "FBXO family protein binding"
## "histidine ammonia-lyase activity"
## "elongation factor-2 kinase activity"
## "translation factor activity, non-nucleic acid binding"
## "oxoglutarate:malate antiporter activity"
## "tRNA 2'-phosphotransferase activity"
## "alcohol dehydrogenase activity, zinc-dependent"
## "structural constituent of bone"
## "TFIIF-class transcription factor complex binding"
## "glutathione-disulfide reductase activity"
## "fibronectin binding"
## "RNA lariat debranching enzyme activity"
## "acylglycerol kinase activity"
## "A-type (transient outward) potassium channel activity"
## "phosphoenolpyruvate carboxykinase (GTP) activity"
## "tRNA (guanine(37)-N(1))-methyltransferase activity"
## "caspase binding"
## "5'-nucleotidase activity"
## "TPR domain binding"
## "pre-miRNA binding"
## "G-protein gamma-subunit binding"
## "inositol 1,4,5-trisphosphate-sensitive calcium-release channel activity"
## "ethanolamine-phosphate cytidyltransferase activity"
## "ion channel activity"
## "nucleoside phosphotransferase activity"
## "acetyl-CoA transmembrane transporter activity"
## "beta-aspartyl-peptidase activity"
## "ethanolaminophosphotransferase activity"
## "folic acid transmembrane transporter activity"
## "POZ domain binding"
## "choline 0-acetyltransferase activity"
## "choline binding"
## "histone demethylase activity (H3-monomethyl-K4 specific)"
## "serine-type carboxypeptidase activity"
## "methanethiol oxidase activity"
## "11-beta-hydroxysteroid dehydrogenase (NADP+) activity"
## "glycine transmembrane transporter activity"
## "transcription corepressor binding"
## "H4K20me3 modified histone binding"
## "mycophenolic acid acyl-glucuronide esterase activity"
## "11-beta-hydroxysteroid dehydrogenase [NAD(P)] activity"
## "hydrolase activity, acting on glycosyl bonds"
## "C-rich single-stranded DNA binding"
## "tRNA (adenine-N1)-methyltransferase activity"
## "mRNA (adenine-N1)-methyltransferase activity"
## "syntaxin-1 binding"

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## "inositol monophosphate 1-phosphatase activity"
## "inositol monophosphate 3-phosphatase activity"
## "inositol monophosphate 4-phosphatase activity"
## "platelet-activating factor acetyltransferase activity"
## "sterol esterase activity"
## "methylated-DNA-[protein]-cysteine S-methyltransferase activity"
## "caffeine oxidase activity"
## "deoxynucleotide transmembrane transporter activity"
## "acetylcholine receptor activator activity"
## "thiamine pyrophosphate transmembrane transporter activity"
## "voltage-gated potassium channel activity involved in ventricular cardiac muscle c
## "dITP diphosphatase activity"
## "ITP diphosphatase activity"
## "XTP diphosphatase activity"
## "calcium oxalate binding"
## "glutaminyt-tRNA synthase (glutamine-hydrolyzing) activity"
## "high-affinity glutamate transmembrane transporter activity"
## "glutamate:sodium symporter activity"
## "palmitoyl-CoA oxidase activity"
## "ubiquitin-specific protease activity involved in positive regulation of ERAD pathw
## "TRAIL binding"
## "inositol monophosphate phosphatase activity"
## "histone methyltransferase activity (H4-R3 specific)"
## "NAD-dependent histone deacetylase activity (H3-K18 specific)"
## "delta24(24-1) sterol reductase activity"
## "maleylacetoacetate isomerase activity"
## "hydrolase activity, acting on acid halide bonds, in C-halide compounds"
## "delta24-sterol reductase activity"
## "NAD(P)H dehydrogenase (quinone) activity"
## "solute:proton symporter activity"
## "monovalent inorganic cation transmembrane transporter activity"
## "holocytochrome-c synthase activity"
## "DNA ligase activity"
## "[acyl-carrier-protein] S-acetyltransferase activity"
## "3-oxoacyl-[acyl-carrier-protein] reductase (NADPH) activity"
## "oleoyl-[acyl-carrier-protein] hydrolase activity"
## "myristoyl-[acyl-carrier-protein] hydrolase activity"
## "palmitoyl-[acyl-carrier-protein] hydrolase activity"
## "enoyl-[acyl-carrier-protein] reductase (NADPH, A-specific) activity"
## "3-hydroxyoctanoyl-[acyl-carrier-protein] dehydratase activity"
## "3-oxo-glutaryl-[acp] methyl ester reductase activity"
## "3-oxo-pimeloyl-[acp] methyl ester reductase activity"
## "centromeric DNA binding"
## "tricarboxylic acid transmembrane transporter activity"
## "chitobiosyldiphosphodolichol beta-mannosyltransferase activity"
## "oxidoreductase activity, acting on the CH-CH group of donors, NAD or NADP as accep
## "cis-stilbene-oxide hydrolase activity"
## "calmodulin-dependent protein kinase activity"
## "mannosyltransferase activity"
## "3',5'-cyclic-nucleotide phosphodiesterase activity"
## "voltage-gated potassium channel activity involved in cardiac muscle cell action p
## "propionyl-CoA carboxylase activity"
## "uroporphyrinogen decarboxylase activity"
## "oxidoreductase activity, acting on a sulfur group of donors"

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## "NADH binding"
## "intermembrane ceramide transfer activity"
## "pseudouridine synthase activity"
## "enhancer sequence-specific DNA binding"
## "phosphorelay sensor kinase activity"
## NA
## "phosphatidylethanolamine-translocating ATPase activity"
## "nucleoside binding"
## "peptide deformylase activity"
## "2-(3-amino-3-carboxypropyl)histidine synthase activity"
## "enzyme binding"
## "adenosine deaminase activity"
## "nucleic acid transmembrane transporter activity"
## "RNA transmembrane transporter activity"
## "vitamin D3 25-hydroxylase activity"
## "m7G(5')pppN diphosphatase activity"
## "exopolyphosphatase activity"
## "Rab GTPase binding"
## "MAP kinase kinase kinase activity"
## "intramolecular oxidoreductase activity"
## "small GTPase binding"
## "interleukin-2 receptor binding"
## "3-hydroxyisobutyryl-CoA hydrolase activity"
## "AP-1 adaptor complex binding"
## "uridylylate kinase activity"
## "calcium-dependent phospholipase A2 activity"
## "vitamin D 24-hydroxylase activity"
## "guanine phosphoribosyltransferase activity"
## "glutaryl-CoA dehydrogenase activity"
## "protein N-terminus binding"
## "oxidized pyrimidine nucleobase lesion DNA N-glycosylase activity"
## "serpin family protein binding"
## "palmitoleoyltransferase activity"
## "lyase activity"
## "ubiquitin-protein transferase regulator activity"
## "ceramide-translocating ATPase activity"
## "dihydroceramide kinase activity"
## "bile acid-exporting ATPase activity"
## "phospholipase C activity"
## "NADPH:quinone reductase activity"
## "rRNA cytidine N-acetyltransferase activity"
## "cyclin-dependent protein kinase activating kinase activity"
## "phosphorylase kinase activity"
## "recombinase activity"
## "BLOC-2 complex binding"
## "cysteine-type endopeptidase activity involved in execution phase of apoptosis"
## "RNA polymerase II core promoter sequence-specific DNA binding"
## "chondroitin sulfate binding"
## "mRNA guanylyltransferase activity"
## "alpha-1,4-glucosidase activity"
## "RNA guanylyltransferase activity"
## "maltose alpha-glucosidase activity"
## "triphosphatase activity"
## "tyrosyl-RNA phosphodiesterase activity"

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## "deoxyribonuclease inhibitor activity"
## "5'-tyrosyl-DNA phosphodiesterase activity"
## "ceramide 1-phosphate binding"
## "ceramide 1-phosphate transporter activity"
## "histone methyltransferase binding"
## "very-low-density lipoprotein particle binding"
## "C-5 sterol desaturase activity"
## "nuclear export signal receptor activity"
## "RNA polymerase I general transcription initiation factor activity"
## "alcohol dehydrogenase (NAD) activity"
## "S-adenosylmethionine-dependent methyltransferase activity"
## "amide binding"
## "signal sequence binding"
## "cysteine-type carboxypeptidase activity"
## "proteasome core complex binding"
## "kynureninase activity"
## "3-hydroxykynureninase activity"
## "phosphatidylcholine-translocating ATPase activity"
## "translation repressor activity, mRNA regulatory element binding"
## "FMN adenylyltransferase activity"
## "13-prostaglandin reductase activity"
## "iron-sulfur transferase activity"
## "15-oxoprostaglandin 13-oxidase activity"
## "molybdopterin adenylyltransferase activity"
## "molybdopterin molybdotransferase activity"
## "fatty acid synthase activity"
## "[acyl-carrier-protein] S-malonyltransferase activity"
## "channel inhibitor activity"
## "cholesterol transporter activity"
## "CDP-diacylglycerol-inositol 3-phosphatidyltransferase activity"
## "alcohol binding"
## "protein dimerization activity"
## "nitrate reductase activity"
## "LIM domain binding"
## "interleukin-16 binding"
## "interleukin-16 receptor activity"
## "testosterone 17-beta-dehydrogenase (NADP+) activity"
## "p53 binding"
## "acyl carnitine transmembrane transporter activity"
## "ubiquitin-like protein transferase activity"
## "RNA N1-methyladenosine dioxygenase activity"
## "tryptophan 2,3-dioxygenase activity"
## "ankyrin binding"
## "single base insertion or deletion binding"
## "U4 snRNA binding"
## "DNA polymerase processivity factor activity"
## "carnitine O-acetyltransferase activity"
## "transferase activity, transferring acyl groups"
## "phosphatidylinositol-5-phosphate binding"
## "serine-type endopeptidase activity"
## "dimethylargininase activity"
## "thymidylate synthase activity"
## "8-oxo-7,8-dihydroguanine DNA N-glycosylase activity"
## "proline-tRNA ligase activity"

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## "voltage-gated ion channel activity"
## "triose-phosphate isomerase activity"
## "box C/D snoRNA binding"
## "lipoyl(octanoyl) transferase activity"
## "testosterone dehydrogenase (NAD+) activity"
## "octanoyl transferase activity (acting on glycine-cleavage complex H protein)"
## "ATP-activated inward rectifier potassium channel activity"
## "lysine-acetylated histone binding"
## "lactase activity"
## "sphingosine hydroxylase activity"
## "angiotensin receptor activity"
## "L-amino-acid oxidase activity"
## "IgM binding"
## "alpha-1,3-galactosyltransferase activity"
## "beta-1,4-mannosylglycoprotein 4-beta-N-acetylglucosaminyltransferase activity"
## "beta-carotene 15,15'-monooxygenase activity"
## "beta-ureidopropionase activity"
## "5-aminolevulinate synthase activity"
## "L-iduronidase activity"
## "(N-acetylneuraminy)-galactosylglucosylceramide N-acetylglactosaminyltransferase"
## "acetylglutamate kinase activity"
## "acetyl-CoA:L-glutamate N-acetyltransferase activity"
## "cyclic-nucleotide phosphodiesterase activity"
## "oligo-1,6-glucosidase activity"
## "sucrose alpha-glucosidase activity"
## "glycosylphosphatidylinositol phospholipase D activity"
## "gonadotropin-releasing hormone receptor activity"
## "intracellular sodium activated potassium channel activity"
## "organic acid:sodium symporter activity"
## "low-affinity glucose:sodium symporter activity"
## "eye pigment precursor transporter activity"
## "nucleoside:sodium symporter activity"
## "galactoside 2-alpha-L-fucosyltransferase activity"
## "S-methyltransferase activity"
## "nucleotidase activity"
## "sucrose:proton symporter activity"
## "sodium:iodide symporter activity"
## "bile acid:sodium symporter activity"
## "folate:anion antiporter activity"
## "N-acetylneuraminate lyase activity"
## "exoribonuclease II activity"
## "type II site-specific deoxyribonuclease activity"
## "low-affinity phosphate transmembrane transporter activity"
## "sterol 5-alpha reductase activity"
## "carotenoid dioxygenase activity"
## "heparan-alpha-glucosaminide N-acetyltransferase activity"
## "nitrate transmembrane transporter activity"
## "prostaglandin transmembrane transporter activity"
## "urate transmembrane transporter activity"
## "carbohydrate transmembrane transporter activity"
## "aromatic amino acid transmembrane transporter activity"
## "L-leucine transmembrane transporter activity"
## "L-methionine transmembrane transporter activity"
## "purine nucleoside transmembrane transporter activity"

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## "purine nucleotide transmembrane transporter activity"
## "solute:sodium symporter activity"
## "sodium:sulfate symporter activity"
## "pyrimidine- and adenine-specific:sodium symporter activity"
## "purine-specific nucleoside:sodium symporter activity"
## "propionate transmembrane transporter activity"
## "short-chain fatty acid transmembrane transporter activity"
## "translation release factor activity, codon nonspecific"
## "urocanate hydratase activity"
## "serine O-acyltransferase activity"
## "C-X3-C chemokine receptor activity"
## "oxidoreductase activity, acting on the CH-NH group of donors"
## "oxidoreductase activity, acting on single donors with incorporation of molecular oxygen"
## "ether hydrolase activity"
## "endoribonuclease activity, producing 3'-phosphomonoesters"
## "glycosylceramidase activity"
## "acetylserotonin O-methyltransferase activity"
## "pantetheine hydrolase activity"
## "3,4-dihydrocoumarin hydrolase activity"
## "pyrimidine nucleotide binding"
## "deaminase activity"
## "passive transmembrane transporter activity"
## "HLA-C specific inhibitory MHC class I receptor activity"
## "low-density lipoprotein particle binding"
## "guanylate cyclase activator activity"
## "CMP-N-acetylneuraminate monooxygenase activity"
## "formimidoyltransferase activity"
## "glutamate formimidoyltransferase activity"
## "formimidoyltetrahydrofolate cyclodeaminase activity"
## "inorganic diphosphate transmembrane transporter activity"
## "acetoacetate-CoA ligase activity"
## "prolactin-releasing peptide receptor binding"
## "HECT domain binding"
## "sweet taste receptor activity"
## "cyanocobalamin reductase (cyanide-eliminating) activity"
## "thyroxine 5-deiodinase activity"
## "N-acetyl-beta-glucosaminyl-glycoprotein 4-beta-N-acetylgalactosaminyltransferase activity"
## "UMP kinase activity"
## "S-nitrosoglutathione binding"
## "dinitrosyl-iron complex binding"
## "thiocyanate peroxidase activity"
## "arachidonate 8(S)-lipoxygenase activity"
## "hepatocyte growth factor binding"
## "xylosyltransferase activity"
## "3'-tRNA processing endoribonuclease activity"
## "SMC family protein binding"
## "sodium-dependent organic anion transmembrane transporter activity"
## "alpha-L-arabinofuranosidase activity"
## "sphingolipid transporter activity"
## "active borate transmembrane transporter activity"
## "vitamin-K-epoxide reductase (warfarin-insensitive) activity"
## "N-acetylneuraminate 7-O(or 9-O)-acetyltransferase activity"
## "N-acetylglucosaminide 3-alpha-galactosyltransferase activity"
## "globoside alpha-N-acetylgalactosaminyltransferase activity"

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"fucose-1-phosphate guanylyltransferase activity"
 ## "D-ribitol-5-phosphate cytidyltransferase activity"
 ## "dodecanoyl-[acyl-carrier-protein] hydrolase activity"
 ## "glycerophosphoinositol inositolphosphodiesterase activity"
 ## "protein-glucosylgalactosylhydroxylysine glucosidase activity"
 ## "alkenylglycerophosphocholine hydrolase activity"
 ## "alkenylglycerophosphoethanolamine hydrolase activity"
 ## "2-methylcitrate dehydratase activity"
 ## "aconitate decarboxylase activity"
 ## "galactolipase activity"
 ## "carnosine synthase activity"
 ## "D-glutamate cyclase activity"
 ## "D-xylose 1-dehydrogenase (NADP+) activity"
 ## "dimethylglycine dehydrogenase activity"
 ## "glutamine N-acyltransferase activity"
 ## "L-fuconate dehydratase activity"
 ## "inositol oxygenase activity"
 ## "N-acylglucosamine 2-epimerase activity"
 ## "N-formylglutamate deformylase activity"
 ## "thiosulfate-thiol sulfurtransferase activity"
 ## "glyceryl-ether monooxygenase activity"
 ## "imidazolonepropionase activity"
 ## "acyloxyacyl hydrolase activity"
 ## "lysophospholipid transporter activity"
 ## "diamine oxidase activity"
 ## "histamine oxidase activity"
 ## "methylputrescine oxidase activity"
 ## "propane-1,3-diamine oxidase activity"
 ## "norspermine:oxygen oxidoreductase activity"
 ## "N1-acetylspermine:oxygen oxidoreductase (N1-acetylspermidine-forming) activity"
 ## "cyclic-GMP-AMP synthase activity"
 ## "sulfide:quinone oxidoreductase activity"
 ## "adenylyltransferase activity"
 ## "cytidyltransferase activity"
 ## "uridylyltransferase activity"
 ## "dihydroceramidase activity"
 ## "K11-linked polyubiquitin modification-dependent protein binding"
 ## "poly-ADP-D-ribose binding"
 ## "citrate-L-glutamate ligase activity"
 ## "nicotinate transmembrane transporter activity"
 ## "dIDP diphosphatase activity"
 ## "collagen fibril binding"
 ## "beta,beta-carotene-9',10'-cleaving oxygenase activity"
 ## "homocarnosine synthase activity"
 ## "laurate hydroxylase activity"
 ## "scopolin beta-glucosidase activity"
 ## "dATP phosphohydrolase activity"
 ## "dCTP phosphohydrolase activity"
 ## "dUTP phosphohydrolase activity"
 ## "dTTP phosphohydrolase activity"
 ## "GTP phosphohydrolase activity"
 ## "8-oxo-dGTP phosphohydrolase activity"
 ## "dGTP phosphohydrolase activity"
 ## "1-18:1-2-16:0-monogalactosyldiacylglycerol lipase activity"

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## "16-hydroxypalmitate dehydrogenase activity"
## "methionine N-acyltransferase activity"
## "Ala-tRNA(Thr) hydrolase activity"
## "ribitol beta-1,4-xylosyltransferase activity"
## "monocarboxylate:sodium symporter activity"
## "XTP binding"
## "ITP binding"
## "platinum binding"
## "xenon atom binding"
## "IDP phosphatase activity"
## "trimethylamine receptor activity"
## "histone kinase activity (H2A-T120 specific)"
## "F-box domain binding"
## "mast cell secretagogue receptor activity"
## "RNA adenylyltransferase activity"
## "NADPH-hemoprotein reductase activity"
## "MAP-kinase scaffold activity"
## "nitric-oxide synthase activity"
## "fatty-acyl-CoA transmembrane transporter activity"
## "N-acetylglucosaminylphosphatidylinositol deacetylase activity"
## "cholesterol 25-hydroxylase activity"
## "aralkylamine N-acetyltransferase activity"
## "glucan 1,4-alpha-glucosidase activity"
## "glycoprotein-fucosylgalactoside alpha-N-acetylgalactosaminyltransferase activity"
## "fucosylgalactoside 3-alpha-galactosyltransferase activity"
## "dolichyl-phosphate-mannose-glycolipid alpha-mannosyltransferase activity"
## "steryl-sulfatase activity"
## "succinyl-CoA hydrolase activity"
## "granulocyte colony-stimulating factor receptor binding"
## "fructose transmembrane transporter activity"
## "sarcosine dehydrogenase activity"
## "arginine decarboxylase activity"
## "endochitinase activity"
## "site-specific DNA-methyltransferase (adenine-specific) activity"
## "methotrexate transmembrane transporter activity"
## "amylase activity"
## "O-palmitoyltransferase activity"
## "3-galactosyl-N-acetylglucosaminide 4-alpha-L-fucosyltransferase activity"
## "fructosamine-3-kinase activity"
## "taste receptor binding"
## "purine ribonucleotide binding"
## "interleukin-22 binding"
## "interleukin-22 receptor activity"
## "interleukin-20 receptor binding"
## "polyamine oxidase activity"
## "phosphatidylcholine-retinol O-acyltransferase activity"
## "CDP-glycerol diphosphatase activity"
## "hydroxyacid-oxoacid transhydrogenase activity"
## "mono-olein transacylation activity"
## "diolein transacylation activity"
## "corticotropin-releasing hormone receptor binding"
## "tRNA-specific adenosine-34 deaminase activity"
## "GDP-mannose hydrolase activity"
## "N(1),N(12)-diacetylspermine:oxygen oxidoreductase (3-acetamidopropanal-forming) a

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## "spermine:oxygen oxidoreductase (spermidine-forming) activity"
## "spermidine:oxygen oxidoreductase (3-aminopropanal-forming) activity"
## "N1-acetylspermine:oxygen oxidoreductase (3-acetamidopropanal-forming) activity"
## "N1-acetylspermidine:oxygen oxidoreductase (3-acetamidopropanal-forming) activity"
## "ADP-ribosyl cyclase activity"
## "cyclic ADP-ribose hydrolase"
## "potassium channel activator activity"
## "N-acetylphosphatidylethanolamine-hydrolysing phospholipase activity"
## "lecithin:11-cis retinol acyltransferase activity"
## "titin binding"
## "purine-specific mismatch base pair DNA N-glycosylase activity"
## "CDP-diacylglycerol-serine O-phosphatidyltransferase activity"
## "D-amino-acid oxidase activity"
## "aspartate 1-decarboxylase activity"
## "diacylglycerol cholinephosphotransferase activity"
## "methylglutaconyl-CoA hydratase activity"
## "retinal isomerase activity"
## "intracellular cyclic nucleotide activated cation channel activity"
## "L-tyrosine transmembrane transporter activity"
## "myo-inositol:sodium symporter activity"
## "pyruvate secondary active transmembrane transporter activity"
## "D-aspartate oxidase activity"
## "phosphatidylinositol transporter activity"
## "recombination hotspot binding"
## "low-affinity sodium:dicarboxylate symporter activity"
## "high-affinity sodium:dicarboxylate symporter activity"
## "oligopeptide-transporting ATPase activity"
## "peptide-transporting ATPase activity"
## "phosphatidylinositol phosphate kinase activity"
## "phosphatidylinositol-3,4-bisphosphate 4-phosphatase activity"
## "sodium:dicarboxylate symporter activity"
## "inositol-1,3,4-trisphosphate 4-phosphatase activity"
## "cysteine dioxygenase activity"
## "aspartoacylase activity"
## "IgA binding"
## "transmitter-gated ion channel activity"
## "interleukin-17E receptor binding"
## "arsenite methyltransferase activity"
## "methylarsonite methyltransferase activity"
## "taurine binding"
## "inhibitory MHC class I receptor activity"
## "aspartate dehydrogenase activity"
## "lipid-transporting ATPase activity"
## "5'-3' RNA polymerase activity"
## "phosphatidylinositol-4,5-bisphosphate 4-phosphatase activity"
## "alpha-1,4-N-acetylgalactosaminyltransferase activity"
## "L-DOPA receptor activity"
## "(R)-3-amino-2-methylpropionate-pyruvate transaminase activity"
## "ganglioside galactosyltransferase activity"
## "itaconyl-CoA hydratase activity"
## "calcium-dependent phospholipase C activity"
## "hyaluronan synthase activity"
## "tryptamine:oxygen oxidoreductase (deaminating) activity"
## "aminoacetone:oxygen oxidoreductase(deaminating) activity"

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## "aliphatic-amine oxidase activity"
## "phenethylamine:oxygen oxidoreductase (deaminating) activity"
## "inositol-3,4-bisphosphate 4-phosphatase activity"
## "NADHX epimerase activity"
## "NADPHX epimerase activity"
## "all-trans-retinyl-palmitate hydrolase, 11-cis retinol forming activity"
## "all-trans-retinyl-ester hydrolase, 11-cis retinol forming activity"
## "CTP:tRNA cytidyltransferase activity"
## "CTP:3'-cytidine-tRNA cytidyltransferase activity"
## "ATP:3'-cytidine-cytidine-tRNA adenylyltransferase activity"
## "S-methylmethionine-homocysteine S-methyltransferase activity"
## "aspartic-type peptidase activity"
## "glutamic-type peptidase activity"
## "rRNA (uridine-N3-)-methyltransferase activity"
## "bicarbonate binding"
## "L-DOPA binding"
## "N-acetyl-L-aspartate-L-glutamate ligase activity"
## "eoxin A4 synthase activity"
## "monoamine oxidase activity"
## "mechanosensitized potassium channel activity"
## "estradiol binding"
## "histidine decarboxylase activity"
## "thromboxane-A synthase activity"
## "interleukin-11 receptor binding"
## "amine transmembrane transporter activity"
## "choline:sodium symporter activity"
## "purine nucleobase transmembrane transporter activity"
## "pyrimidine nucleobase transmembrane transporter activity"
## "CMP-N-acetylneuraminate transmembrane transporter activity"
## "tetracycline transmembrane transporter activity"
## "iodide transmembrane transporter activity"
## "glucose-6-phosphate transmembrane transporter activity"
## "polyol transmembrane transporter activity"
## "urea channel activity"
## "zinc-transporting ATPase activity"
## "N-sulfolglucosamine sulfolhydrolase activity"
## "pheromone receptor activity"
## "hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in cyclic"
## "Intermediate conductance calcium-activated potassium channel activity"
## "CXCR4 chemokine receptor binding"
## "inositol pentakisphosphate 2-kinase activity"
## "12-hydroxyheptadecatrienoic acid synthase activity"
## "interleukin-18 binding"
## "interleukin-18 receptor activity"
## "GTP cyclohydrolase binding"
## "interleukin-22 receptor binding"
## "carboxylic acid transmembrane transporter activity"
## "cysteamine dioxygenase activity"
## "fatty acid peroxidase activity"
## "hydroxylysine kinase activity"
## "lactosylceramide 4-alpha-galactosyltransferase activity"
## "gamma-glutamylaminecyclotransferase activity"
## "ferritin receptor activity"
## "GDP-D-glucose phosphorylase activity"

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## "polychlorinated biphenyl binding"
## "intracellular phosphatidylinositol-3,5-bisphosphate-sensitive cation channel acti
## "sphingosine N-acyltransferase activity"
## "thymine binding"
## "ADP-ribosylarginine hydrolase activity"
## "NAD+ nucleosidase activity"
## "bisphosphoglycerate 2-phosphatase activity"
## "glycolipid mannosyltransferase activity"
## "methylmalonyl-CoA epimerase activity"
## "neolactotetraosylceramide alpha-2,3-sialyltransferase activity"
## NA
## "norepinephrine:sodium symporter activity"
## "GDP-fucose transmembrane transporter activity"
## "UDP-xylose transmembrane transporter activity"
## "mannan endo-1,6-alpha-mannosidase activity"
## "NADPH dehydrogenase (quinone) activity"
## "methyl-CpNpG binding"
## "sialic acid:proton symporter activity"
## "phosphorus-oxygen lyase activity"
## "single-strand selective uracil DNA N-glycosylase activity"
## "interleukin-10 binding"
## "S-adenosylmethionine-dependent tRNA (m5U54) methyltransferase activity"
## "A2A adenosine receptor binding"
## "apolipoprotein A-I receptor activity"
## "interleukin-12 beta subunit binding"
## "lysophosphatidic acid acyltransferase activity"
## "interleukin-27 binding"
## "lactosylceramide alpha-2,3-sialyltransferase activity"
## "acyl-CoA hydrolase activity"
## "L-gulonate 3-dehydrogenase activity"
## "NAD(P)+ nucleosidase activity"
## "fucokinase activity"
## "metal ion:proton antiporter activity"
## "magnesium:sodium antiporter activity"
## "NAD+ nucleotidase, cyclic ADP-ribose generating"
## "dipeptide transmembrane transporter activity"
## "phosphatidylserine-translocating ATPase activity"
## "cholesterol dehydrogenase activity"
## "polyprenol reductase activity"
## "tRNA 4-demethylwyosine alpha-amino-alpha-carboxypropyltransferase activity"
## "tRNAPhe (7-(3-amino-3-carboxypropyl)wyosine37-C2)-hydroxylase activity"
## "palmitoleyl hydrolase activity"
## "tRNA demethylase activity"
## "proteasome binding"
## "allantoicase activity"
## "iodide peroxidase activity"
## "malate synthase activity"
## "methionyl-tRNA formyltransferase activity"
## "methylmalonyl-CoA decarboxylase activity"
## "monophenol monooxygenase activity"
## "ATP transmembrane transporter activity"
## "calcium, potassium:sodium antiporter activity"
## "alpha-1,6-mannosylglycoprotein 2-beta-N-acetylglucosaminyltransferase activity"
## "UDP-galactose:glucosylceramide beta-1,4-galactosyltransferase activity"

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## "hexose transmembrane transporter activity"
## "L-threonine transmembrane transporter activity"
## "urea transmembrane transporter activity"
## "hexosaminidase activity"
## "linoleate 13S-lipoxygenase activity"
## "racemase and epimerase activity"
## "pyroglutamyl-peptidase activity"
## "voltage-gated proton channel activity"
## "guanidinoacetate N-methyltransferase activity"
## "sour taste receptor activity"
## "10-hydroxy-9-(phosphonoxy)octadecanoate phosphatase activity"
## "mannosyl-glycoprotein endo-beta-N-acetylglucosaminidase activity"
## "L-hydroxyproline transmembrane transporter activity"
## "GDP-4-dehydro-D-rhamnose reductase activity"
## "N-acylsphingosine galactosyltransferase activity"
## "L-phenylalanine:pyruvate aminotransferase activity"
## "glutamine-phenylpyruvate transaminase activity"
## "(3S)-citramalyl-CoA lyase activity"
## "GDP-mannose 3,5-epimerase activity"
## "L-glutamine:pyruvate aminotransferase activity"
## "GDP-L-fucose synthase activity"
## "1-acyl-2-lysophosphatidylserine acylhydrolase activity"
## "glucose 6-phosphate:inorganic phosphate antiporter activity"
## "GTP 3',8'-cyclase activity"
## "cyclic pyranopterin monophosphate synthase activity"
## "divalent inorganic cation transmembrane transporter activity"
## "temperature-gated cation channel activity"
## "Ac-Asp-Glu binding"
## "tetrahydrofolyl-poly(glutamate) polymer binding"
## "thiol-dependent ubiquitin-specific protease activity"
## "L-alanine:2-oxoglutarate aminotransferase activity"
## "interleukin-21 receptor activity"
## "4-hydroxyphenylpyruvate dioxygenase activity"
## "N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase activity"
## "aldose 1-epimerase activity"
## "orotate phosphoribosyltransferase activity"
## "orotidine-5'-phosphate decarboxylase activity"
## "ribulose-phosphate 3-epimerase activity"
## "glucose:sodium symporter activity"
## "prostaglandin-I synthase activity"
## "thiopurine S-methyltransferase activity"
## "N-acetylglucosamine-6-phosphate deacetylase activity"
## "sodium-dependent multivitamin transmembrane transporter activity"
## "sodium-independent organic anion transmembrane transporter activity"
## "thyroid hormone transmembrane transporter activity"
## "mannosidase activity"
## "D-ribulokinase activity"
## "guanylate cyclase regulator activity"
## "inositol-1,3,4,5,6-pentakisphosphate 3-phosphatase activity"
## "O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase activity"
## "bisphosphoglycerate 3-phosphatase activity"
## "retinol transmembrane transporter activity"
## "RIG-I binding"
## "1-alkenylglycerophosphoethanolamine O-acyltransferase activity"

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##      "alpha-amino-acid esterase activity"
##      "retinyl-palmitate esterase activity"
##      "ribosylnicotinamide kinase activity"
##      "phosphatidylserine 1-acylhydrolase activity"
##      "inositol hexakisphosphate 2-phosphatase activity"
##      "ribosylnicotinate kinase activity"
##      "single-stranded DNA endodeoxyribonuclease activity"
##      "2,4-dienoyl-CoA reductase (NADPH) activity"
##      "aryldialkylphosphatase activity"
##      "cytosine deaminase activity"
##      "ribonuclease A activity"
##      "phenylethanolamine N-methyltransferase activity"
##      "phosphopantothenate--cysteine ligase activity"
##      "uridine phosphorylase activity"
##      "xanthine oxidase activity"
##      "interleukin-13 receptor binding"
##      "mechanosensitive ion channel activity"
##      "cob(I)yrinic acid a,c-diamide adenosyltransferase activity"
##      "molybdate ion transmembrane transporter activity"
##      "fatty acid amide hydrolase activity"
##      "wide pore channel activity"
##      "CX3C chemokine receptor binding"
##      "oxidative DNA demethylase activity"
##      "cardiolipin hydrolase activity"
##      "CXCR1 chemokine receptor binding"
##      "interleukin-1 type I receptor antagonist activity"
##      "interleukin-1 type II receptor antagonist activity"
##      "metal ion transmembrane transporter activity"
##      "hepoxilin-epoxide hydrolase activity"
##      "cytosine C-5 DNA demethylase activity"
##      "lipase activator activity"
##      "gap junction channel activity involved in atrial cardiac muscle cell-AV node cell"
##      "gap junction channel activity involved in bundle of His cell-Purkinje myocyte ele"
##      "gap junction channel activity involved in Purkinje myocyte-ventricular cardiac mus"
##      "oleamide hydrolase activity"
##      "anandamide amidohydrolase activity"
##      "anti-Mullerian hormone receptor activity"
##      "RNA N6-methyladenosine dioxygenase activity"
##      "rRNA (pseudouridine) methyltransferase activity"
##      "RNA polymerase III regulatory region DNA binding"
##      "kynurenine 3-monooxygenase activity"
##      "tryptophan 5-monooxygenase activity"
##      "L-tyrosine:2-oxoglutarate aminotransferase activity"
##      "interleukin-9 receptor binding"
##      "sarcosine oxidase activity"
##      "riboflavin kinase activity"
##      "L-asparagine transmembrane transporter activity"
##      "glycerol channel activity"
##      "putrescine transmembrane transporter activity"
##      "formate transmembrane transporter activity"
##      "formate efflux transmembrane transporter activity"
##      "HLA-A specific inhibitory MHC class I receptor activity"
##      "ribonuclease T2 activity"
##      "D-dopachrome decarboxylase activity"

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##      "thiamine phosphate phosphatase activity"
##      "glycine N-acyltransferase activity"
##      "glycine N-benzoyltransferase activity"
##      "L-pipecolate oxidase activity"
##      "malonyl-CoA decarboxylase activity"
##      "sedoheptulokinase activity"
##      "deoxyribonucleoside 5'-monophosphate N-glycosidase activity"
##      "myosin VI binding"
##      "rRNA (cytosine-N4-)-methyltransferase activity"
##      "low-affinity L-arginine transmembrane transporter activity"
##      "high-affinity L-ornithine transmembrane transporter activity"
##      "calcium ion binding"
##      "protein methyltransferase activity"
##      "complement component C4b receptor activity"
##      "acylphosphatase activity"
##      "aldehyde oxidase activity"
##      "cGMP-stimulated cyclic-nucleotide phosphodiesterase activity"
##      "dihydrouracil dehydrogenase (NAD+) activity"
##      "phosphatidylcholine-sterol O-acyltransferase activity"
##      "complement component C3b receptor activity"
##      "nucleoside transmembrane transporter activity"
##      "thymidine phosphorylase activity"
##      "pyrimidine-nucleoside phosphorylase activity"
##      "interleukin-13 receptor activity"
##      "dihydropyrimidine dehydrogenase (NADP+) activity"
##      "immunoglobulin receptor activity"
##      "tubulin N-acetyltransferase activity"
##      "peptidyl-proline 3-dioxygenase activity"
##      "thrombopoietin receptor activity"
##      "glucoside transmembrane transporter activity"
##      "glucose 1-dehydrogenase [NAD(P)] activity"
##      "thiamin-triphosphatase activity"
##      "sugar transmembrane transporter activity"
##      "palmitoyl hydrolase activity"
##      "geranial:oxygen oxidoreductase activity"
##      "heptaldehyde:oxygen oxidoreductase activity"
##      "phenanthrene-9,10-epoxide hydrolase activity"
##      "leukemia inhibitory factor receptor binding"
##      "nicotinamide N-methyltransferase activity"
##      "CDP-diacylglycerol-glycerol-3-phosphate 3-phosphatidyltransferase activity"
##      "UDP-sugar diphosphatase activity"
##      "bis(5'-nucleosyl)-tetrphosphatase (symmetrical) activity"
##      "photoreceptor activity"
##      "NAD(P)H oxidase activity"
##      "endodeoxyribonuclease activity, producing 3'-phosphomonoesters"
##      "glycolipid transporter activity"
##      "receptor regulator activity"
##      "pyridine N-methyltransferase activity"
##      "tetrahydrobiopterin binding"
##      "small molecule binding"
##      "NADPH:sulfur oxidoreductase activity"
##      "omega-6 fatty acid desaturase activity"
##      "omega-amidase activity"
##      "methionine-R-sulfoxide reductase activity"

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## "UFM1 hydrolase activity"
## "glycosylated region protein binding"
## "organic anion transmembrane transporter activity"
## "phenylalanine 4-monooxygenase activity"
## "basal RNA polymerase II transcription machinery binding"
## "ceramide phosphoethanolamine synthase activity"
## "3-oxo-5-alpha-steroid 4-dehydrogenase activity"
## "dihydroorotate dehydrogenase activity"
## "dolichol kinase activity"
## "mRNA (nucleoside-2'-O-)-methyltransferase activity"
## "glycoprotein endo-alpha-1,2-mannosidase activity"
## "thyroxine 5'-deiodinase activity"
## "interleukin-1, type II, blocking receptor activity"
## "alpha-1,3-mannosylglycoprotein 4-beta-N-acetylglucosaminyltransferase activity"
## "guanylate cyclase inhibitor activity"
## "type 1 cannabinoid receptor binding"
## "interleukin-28 receptor binding"
## "sphingomyelin synthase activity"
## "N6-isopentenyladenosine methylthiotransferase activity"
## "enterobactin transmembrane transporter activity"
## "N-acetylgalactosamine-6-sulfatase activity"
## "L-xylulose reductase (NAD+) activity"
## "glycerophosphocholine phosphodiesterase activity"
## "ceramide cholinephosphotransferase activity"
## "cholestenone 5-alpha-reductase activity"
## "glucose-1,6-bisphosphate synthase activity"
## "calcium- and calmodulin-regulated 3',5'-cyclic-GMP phosphodiesterase activity"
## "L-xylulose reductase (NADP+) activity"
## "beta-galactoside alpha-2,3-sialyltransferase activity"
## "protein-glutamic acid ligase activity"
## "calcium ion binding involved in regulation of postsynaptic cytosolic calcium ion c"
## "riboflavin binding"
## "glutaminase activity"
## "DNA nucleotidylexotransferase activity"
## "beta-mannosidase activity"
## "interleukin-7 receptor binding"
## "proline:sodium symporter activity"
## "monovalent cation:proton antiporter activity"
## "alpha-methylacyl-CoA racemase activity"
## "agmatinase activity"
## "lithium:proton antiporter activity"
## "organic cation transmembrane transporter activity"
## "cystine:glutamate antiporter activity"
## "endoribonuclease activity, producing 5'-phosphomonoesters"
## "HLA-A specific activating MHC class I receptor activity"
## "glutathione transmembrane transporter activity"
## "chylomicron binding"
## "oxidative RNA demethylase activity"
## "sphingolipid-translocating ATPase activity"
## "vitamin transmembrane transporter activity"
## "calcidiol binding"
## "phosphatidylinositol phosphate binding"
## "glucan 1,3-alpha-glucosidase activity"
## "protein phosphatase regulator activity"

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## "adenine nucleotide transmembrane transporter activity"
## "uracil binding"
## "alpha-1,3-mannosylglycoprotein 2-beta-N-acetylglucosaminyltransferase activity"
## "acetylcholinesterase activity"
## "oncostatin-M receptor binding"
## "L-histidine transmembrane transporter activity"
## "proton-dependent oligopeptide secondary active transmembrane transporter activity"
## "low voltage-gated calcium channel activity"
## "cholesterol monooxygenase (side-chain-cleaving) activity"
## "chloride-transporting ATPase activity"
## "metallochaperone activity"
## "acid-thiol ligase activity"
## "HLA-B specific inhibitory MHC class I receptor activity"
## "riboflavin transmembrane transporter activity"
## "Fas-activated serine/threonine kinase activity"
## "FMN transmembrane transporter activity"
## "NAD transmembrane transporter activity"
## "phosphocholine phosphatase activity"
## "phosphoethanolamine phosphatase activity"
## "metallodipeptidase activity"
## "voltage-gated potassium channel activity involved in SA node cell action potential"
## "malonyl-CoA synthetase activity"
## "protein-L-isoaspartate (D-aspartate) O-methyltransferase activity"
## "all-trans retinal binding"
## "lysozyme activity"
## "phospholipase activity"
## "DNA-N1-methyladenine dioxygenase activity"
## "inositol hexakisphosphate 6-kinase activity"
## "dihydronicotinamide riboside quinone reductase activity"
## "N4-(beta-N-acetylglucosaminyl)-L-asparaginase activity"
## "glucose-6-phosphatase activity"
## "alpha-L-fucosidase activity"
## "sepiapterin reductase activity"
## "UDP-N-acetylglucosamine transmembrane transporter activity"
## "3'-nucleotidase activity"
## "single-stranded DNA exodeoxyribonuclease activity"
## "secondary active organic cation transmembrane transporter activity"
## "phosphopentomutase activity"
## "ADP transmembrane transporter activity"
## "coenzyme A transmembrane transporter activity"
## "cation:cation antiporter activity"
## "oxidoreductase activity, acting on other nitrogenous compounds as donors"
## "corticotropin hormone receptor binding"
## "type 5 melanocortin receptor binding"
## "zymogen binding"
## "interleukin-18 receptor binding"
## "betaine-homocysteine S-methyltransferase activity"
## "N-acylneuraminate-9-phosphatase activity"
## "ATPase regulator activity"
## "AMP transmembrane transporter activity"
## "melatonin binding"
## "resveratrol binding"
## "Roundabout binding"
## "protein phosphatase activator activity"

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## "AP-3 adaptor complex binding"
## "phosphotransferase activity, for other substituted phosphate groups"
## "prenylcysteine oxidase activity"
## "peptide:proton symporter activity"
## "calcium:cation antiporter activity"
## "glycine:sodium symporter activity"
## "alpha-sialidase activity"
## "oligopeptide transmembrane transporter activity"
## "DNA end binding"
## "histamine N-methyltransferase activity"
## "glucosaminylgalactosylglucosylceramide beta-galactosyltransferase activity"
## "diphthine methylesterase activity"
## "ADP-D-ribose binding"
## "calcium:sodium antiporter activity involved in regulation of cardiac muscle cell r
## "phosphoseryl-selenocysteinyl-tRNA selenium transferase activity"
## "ubiquitin-dependent protein binding"
## "GPI anchor binding"
## "brain-derived neurotrophic factor binding"
## "methenyltetrahydrofolate cyclohydrolase activity"
## "methylenetetrahydrofolate dehydrogenase (NAD+) activity"
## "methylenetetrahydrofolate dehydrogenase (NADP+) activity"
## "stem cell factor receptor binding"
## "(1->3)-beta-D-glucan binding"
## "choline kinase activity"
## "inositol-1,4-bisphosphate 1-phosphatase activity"
## "polyribonucleotide nucleotidyltransferase activity"
## "thiamine diphosphokinase activity"
## "xanthine dehydrogenase activity"
## "creatine transmembrane transporter activity"
## "creatine:sodium symporter activity"
## "ceramide glucosyltransferase activity"
## "carnitine O-octanoyltransferase activity"
## "protein-tyrosine sulfotransferase activity"
## "diuretic hormone activity"
## "cobalt ion transmembrane transporter activity"
## "lead ion transmembrane transporter activity"
## "nickel cation transmembrane transporter activity"
## "proton channel activity"
## "cobalamin-transporting ATPase activity"
## "linoleoyl-CoA desaturase activity"
## "hydroxymethyl-, formyl- and related transferase activity"
## "interleukin-3 binding"
## "thiamine binding"
## "riboflavin reductase (NADPH) activity"
## "host cell surface receptor binding"
## "inositol tetrakisphosphate 1-kinase activity"
## "amine sulfotransferase activity"
## "chondroitin-glucuronate 5-epimerase activity"
## "AF-2 domain binding"
## "granulocyte colony-stimulating factor binding"
## "inositol-1,3,4-trisphosphate 6-kinase activity"
## "inositol-1,3,4-trisphosphate 5-kinase activity"
## "inositol-1,3,4,5,6-pentakisphosphate 1-phosphatase activity"
## "inositol-1,3,4-trisphosphate 1-phosphatase activity"

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## "inositol-1,3,4,6-tetrakisphosphate 6-phosphatase activity"
## "inositol-1,3,4,6-tetrakisphosphate 1-phosphatase activity"
## "inositol-3,4,6-trisphosphate 1-kinase activity"
## "iron channel activity"
## "protein histidine phosphatase activity"
## "dihydroceramide glucosyltransferase activity"
## "1-ethyladenine demethylase activity"
## "MAP kinase serine/threonine phosphatase activity"
## "phosphopantothienoylcysteine decarboxylase activity"
## "cation transmembrane transporter activity"
## "glycerate dehydrogenase activity"
## "hydroxypyruvate reductase activity"
## "hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in cyclic a
## "extracellularly glycine-gated ion channel activity"
## "thiol oxidase activity"
## "aspartate N-acetyltransferase activity"
## "glyoxylate reductase (NADP) activity"
## "[methionine synthase] reductase activity"
## "adenyl deoxyribonucleotide binding"
## "ADP-specific glucokinase activity"
## "aquacobalamin reductase (NADPH) activity"
## "temperature-gated ion channel activity"
## "intermembrane lipid transfer activity"
## "linoleate 9S-lipoxygenase activity"
## "preribosome binding"
## "G-quadruplex RNA binding"
## "heparan sulfate binding"
## "TFIID-class transcription factor complex binding"
## "protein tyrosine kinase activator activity"
## "4-aminobutyrate transaminase activity"
## "aromatic-L-amino-acid decarboxylase activity"
## "nucleotide diphosphatase activity"
## "interferon receptor activity"
## "serotonin:sodium symporter activity"
## "guanosine-5'-triphosphate,3'-diphosphate diphosphatase activity"
## "peptidoglycan glycosyltransferase activity"
## "pyrimidine nucleotide transmembrane transporter activity"
## "cation:chloride symporter activity"
## "lipoate synthase activity"
## "oxalate transmembrane transporter activity"
## "cocaine binding"
## "U4atac snRNA binding"
## "succinate-semialdehyde dehydrogenase binding"
## "4-aminobutyrate:2-oxoglutarate transaminase activity"
## "L-dopa decarboxylase activity"
## "gluconokinase activity"
## "(S)-3-amino-2-methylpropionate transaminase activity"
## "all-trans-retinol 13,14-reductase activity"
## "calcium ion binding involved in regulation of presynaptic cytosolic calcium ion c
## "DNA polymerase binding"
## "arachidonic acid omega-hydroxylase activity"
## "alpha-tocopherol omega-hydroxylase activity"
## "tocotrienol omega-hydroxylase activity"
## "myosin I binding"

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## "3-hydroxybutyrate dehydrogenase activity"
## "dopamine beta-monooxygenase activity"
## "protein C-terminal S-isoprenylcysteine carboxyl O-methyltransferase activity"
## "complement receptor activity"
## "arginine transmembrane transporter activity"
## "L-lysine transmembrane transporter activity"
## "oxidoreductase activity, acting on paired donors, with incorporation or reduction
## "thiolester hydrolase activity"
## "proline racemase activity"
## "GTP diphosphatase activity"
## "H2A histone acetyltransferase activity"
## "2-hydroxy-adenosine triphosphate pyrophosphatase activity"
## "2-hydroxy-(deoxy)adenosine-triphosphate pyrophosphatase activity"
## "ATP diphosphatase activity"
## "methionine adenosyltransferase regulator activity"
## "trans-L-3-hydroxyproline dehydratase activity"
## "retinol binding"
## "phosphoprotein binding"
## "inositol phosphate phosphatase activity"
## "sodium channel regulator activity"
## "alpha-N-acetylneuraminate alpha-2,8-sialyltransferase activity"
## "manganese ion transmembrane transporter activity"
## "selenocysteine lyase activity"
## "cadmium ion transmembrane transporter activity"
## "sialic acid transmembrane transporter activity"
## "carnitine transmembrane transporter activity"
## "gamma-aminobutyric acid:proton symporter activity"
## "receptor signaling protein tyrosine kinase inhibitor activity"
## "transition metal ion transmembrane transporter activity"
## "2-hydroxyglutarate dehydrogenase activity"
## "serine-type aminopeptidase activity"
## "para-aminobenzoyl-glutamate hydrolase activity"
## "type 8 metabotropic glutamate receptor binding"
## "monoamine transmembrane transporter activity"
## "RNA polymerase III core binding"
## "N-acetylgalactosamine-4-sulfatase activity"
## "dCMP deaminase activity"
## "tubulin-tyrosine ligase activity"
## "peptidyl-dipeptidase activity"
## "8-oxo-7,8-dihydroguanosine triphosphate pyrophosphatase activity"
## "hydroxypyruvate isomerase activity"
## "acireductone dioxygenase [iron(II)-requiring] activity"
## "2-alkenal reductase [NAD(P)] activity"
## "hyaluronoglucuronidase activity"
## "8-oxo-7,8-dihydrodeoxyguanosine triphosphate pyrophosphatase activity"
## "ganglioside binding"
## "cholest-5-ene-3-beta,7-alpha-diol 3-beta-dehydrogenase activity"
## "cell adhesive protein binding involved in AV node cell-bundle of His cell communi
## "nitric-oxide synthase regulator activity"
## "deoxycytidine kinase activity"
## "methylmalonyl-CoA mutase activity"
## "taurine:sodium symporter activity"
## "fucosyltransferase activity"
## "protein-N-terminal asparagine amidohydrolase activity"

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## "diphthine-ammonia ligase activity"
## "sphingolipid activator protein activity"
## "beta-N-acetylgalactosaminidase activity"
## "diphosphoinositol-pentakisphosphate kinase activity"
## "dolichyldiphosphatase activity"
## "5-diphosphoinositol pentakisphosphate 3-kinase activity"
## "pseudouridine 5'-phosphatase activity"
## "serine C-palmitoyltransferase activity"
## "sterol-transporting ATPase activity"
## "asialoglycoprotein receptor activity"
## "poly(C) RNA binding"
## "complement component C4b binding"
## "DNA topoisomerase type II (ATP-hydrolyzing) activity"
## "tyrosine 3-monooxygenase activity"
## "sulfinolalanine decarboxylase activity"
## "interleukin-10 receptor activity"
## "high-affinity inorganic phosphate:sodium symporter activity"
## "cytoskeletal regulatory protein binding"
## "glycoprotein 6-alpha-L-fucosyltransferase activity"
## "3'(2'),5'-bisphosphate nucleotidase activity"
## "guanine deaminase activity"
## "guanosine-3',5'-bis(diphosphate) 3'-diphosphatase activity"
## "calcium-dependent cysteine-type endopeptidase inhibitor activity"
## "quaternary ammonium group transmembrane transporter activity"
## "CoA hydrolase activity"
## "strictosidine synthase activity"
## "arginine deiminase activity"
## "pyrimidine deoxyribonucleotide binding"
## "hormone-sensitive lipase activity"
## "choloyl-CoA hydrolase activity"
## "adenosine-diphosphatase activity"
## "alpha-(1->6)-fucosyltransferase activity"
## "peptide-O-fucosyltransferase activity"
## "3-oxoacyl-[acyl-carrier-protein] reductase (NADH) activity"
## "dCTP diphosphatase activity"
## "ethanolamine-phosphate phospho-lyase activity"
## "neuropeptide receptor binding"
## "arachidonate 12-lipoxygenase activity"
## "galactosylceramidase activity"
## "glutathione synthase activity"
## "glycerate kinase activity"
## "glutamate-cysteine ligase catalytic subunit binding"
## "cysteine-S-conjugate N-acetyltransferase activity"
## "NEDD8 conjugating enzyme activity"
## "interleukin-33 binding"
## "amidase activity"
## "cholinesterase activity"
## "anion channel activity"
## "beta-galactosyl-N-acetylglucosaminylgalactosylglucosyl-ceramide beta-1,3-acetylglucosaminyltransferase activity"
## "bilirubin transmembrane transporter activity"
## "acid-sensing ion channel activity"
## "acetylglactosaminyl-O-glycosyl-glycoprotein beta-1,3-N-acetylglucosaminyltransferase activity"
## "lactosylceramide 1,3-N-acetyl-beta-D-glucosaminyltransferase activity"
## "glycerophosphoinositol glycerophosphodiesterase activity"

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## "microfibril binding"
## "dihydrosphingosine-1-phosphate phosphatase activity"
## "UFM1 transferase activity"
## "oxidoreductase activity, acting on paired donors, with incorporation or reduction
## "GPI-anchor transamidase activity"
## "manganese ion binding"
## "mRNA cap binding"
## "polymeric immunoglobulin receptor activity"
## "cerebroside-sulfatase activity"
## "deoxyribose-phosphate aldolase activity"
## "calcium-dependent cysteine-type endopeptidase activity"
## "Ral guanyl-nucleotide exchange factor activity"
## "small conductance calcium-activated potassium channel activity"
## "short-chain carboxylesterase activity"
## "protein-malonyllysine demalonylase activity"
## "protein-succinyllysine desuccinylase activity"
## "Ras palmitoyltransferase activity"
## "protein-glutaryllysine deglutarylase activity"
## "protein-glycine ligase activity, initiating"
## "gap junction channel activity involved in SA node cell-atrial cardiac muscle cell
## "gap junction channel activity involved in AV node cell-bundle of His cell electri
## "alpha-glucosidase activity"
## "calcium-dependent carbohydrate binding"
## "pseudophosphatase activity"
## "gamma-aminobutyric acid:sodium symporter activity"
## "tRNA (uracil) methyltransferase activity"
## "2,3-diketo-5-methylthiopentyl-1-phosphate enolase activity"
## "2-hydroxy-3-keto-5-methylthiopentenyl-1-phosphate phosphatase activity"
## "acireductone synthase activity"
## "nicotinamide phosphoribosyltransferase activity"
## "phytanoyl-CoA dioxygenase activity"
## "icosatetraenoic acid binding"
## "mannan binding"
## "15-hydroxyprostaglandin dehydrogenase (NADP+) activity"
## "prostaglandin-E2 9-reductase activity"
## "calmodulin-dependent cyclic-nucleotide phosphodiesterase activity"
## "hydroxymethylbilane synthase activity"
## "phosphomevalonate kinase activity"
## "sodium-exporting ATPase activity, phosphorylative mechanism"
## "exodeoxyribonuclease I activity"
## "canalicular bile acid transmembrane transporter activity"
## "hepoxilin A3 synthase activity"
## "raffinose alpha-galactosidase activity"
## "glutamate-ammonia ligase activity"
## "MHC class II protein binding, via antigen binding groove"
## "S-adenosyl-L-methionine transmembrane transporter activity"
## "acylglycerol 0-acyltransferase activity"
## "lipid antigen binding"
## "hydroxyapatite binding"
## "[phosphorylase] phosphatase activity"
## "monocarboxylic acid transmembrane transporter activity"
## "glucuronyl-galactosyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase activi
## "leukotriene-C4 synthase activity"
## "alpha-N-acetylglucosaminidase activity"

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## "D4 dopamine receptor binding"
## "dihydrotestosterone 17-beta-dehydrogenase activity"
## "prostaglandin H2 endoperoxidase reductase activity"
## "prostaglandin D2 11-ketoreductase activity"
## "ketoreductase activity"
## "15-hydroxyprostaglandin-D dehydrogenase (NADP+) activity"
## "ciliary neurotrophic factor binding"
## "transcription factor activity, RNA polymerase II distal enhancer sequence-specific"
## "nicotinate-nucleotide adenylyltransferase activity"
## "formate-tetrahydrofolate ligase activity"
## "volume-sensitive anion channel activity"
## "sulfiredoxin activity"
## "tRNA-4-demethylwyosine synthase activity"
## "protein-hormone receptor activity"
## "peptidylglycine monooxygenase activity"
## "peptidylamidoglycolate lyase activity"
## "cupric reductase activity"
## "glycine N-methyltransferase activity"
## "alpha-(1->3)-fucosyltransferase activity"
## "ferric-chelate reductase (NADPH) activity"
## "carnosine N-methyltransferase activity"
## "beta-galactoside alpha-2,6-sialyltransferase activity"
## "holo-[acyl-carrier-protein] synthase activity"
## "galactosylgalactosylglucosylceramide beta-D-acetylglactosaminyltransferase activi"
## "trimethyllysine dioxygenase activity"
## "glycogen binding"
## "polynucleotide 3'-phosphatase activity"
## "leukotriene-C(4) hydrolase"
## "ketohexokinase activity"
## "osmosensor activity"
## "Mo-molybdopterin cofactor sulfurase activity"
## "stretch-activated, cation-selective, calcium channel activity"
## "catechol O-methyltransferase activity"
## "MutLbeta complex binding"
## "MutSbeta complex binding"
## "UDP-glucosyltransferase activity"
## "adenine/guanine mispair binding"
## "galactosylxylosylprotein 3-beta-galactosyltransferase activity"
## "L-dopa O-methyltransferase activity"
## "molybdenum cofactor sulfurtransferase activity"
## "orcinol O-methyltransferase activity"
## "dolichyl pyrophosphate Glc2Man9GlcNAc2 alpha-1,2-glucosyltransferase activity"
## "NAADP-sensitive calcium-release channel activity"
## "phosphatidylinositol-4-phosphate phosphatase activity"
## "inositol 1,4,5 trisphosphate binding"
## "copper-exporting ATPase activity"
## "copper-transporting ATPase activity"
## "estrogen 16-alpha-hydroxylase activity"
## "UDP-N-acetylglucosamine-dolichyl-phosphate N-acetylglucosaminephosphotransferase a"
## "UDP-galactose transmembrane transporter activity"
## "UDP-N-acetylglucosamine 2-epimerase activity"
## "phospho-N-acetylmuramoyl-pentapeptide-transferase activity"
## "N-acylmannosamine kinase activity"
## "myosin phosphatase regulator activity"

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## "protein-disulfide reductase (glutathione) activity"
## "cholate-CoA ligase activity"
## "transforming growth factor beta receptor activity, type III"
## "G protein-coupled glutamate receptor binding"
## "NAD+ kinase activity"
## "lamin binding"
## "succinate-semialdehyde dehydrogenase (NAD+) activity"
## "uroporphyrinogen-III synthase activity"
## "succinate-semialdehyde dehydrogenase [NAD(P)+] activity"
## "choline transmembrane transporter activity"
## "tRNA (adenine-N6-)-methyltransferase activity"
## "diacylglycerol binding"
## "retinol 0-fatty-acyltransferase activity"
## "inorganic anion exchanger activity"
## "Rap guanyl-nucleotide exchange factor activity"
## "gamma-butyrobetaine dioxygenase activity"
## "ferrous iron transmembrane transporter activity"
## "ICAM-3 receptor activity"
## "S-methyl-5-thioribose-1-phosphate isomerase activity"
## "dol-P-Man:Man(8)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase activity"
## "dol-P-Man:Man(6)GlcNAc(2)-PP-Dol alpha-1,2-mannosyltransferase activity"
## "3alpha,7alpha,12alpha-trihydroxy-5beta-cholestanoyl-CoA 24-hydroxylase activity"
## "NADH pyrophosphatase activity"
## "hypoxanthine phosphoribosyltransferase activity"
## "L-ornithine transmembrane transporter activity"
## "left-handed Z-DNA binding"
## "arachidonate 5-lipoxygenase activity"
## "extracellularly glutamate-gated chloride channel activity"
## "dCTP deaminase activity"
## "tRNA (cytosine) methyltransferase activity"
## "lipid phosphatase activity"
## "phosphoric ester hydrolase activity"
## "RNA polymerase core enzyme binding"
## "phosphatidylinositol deacylase activity"
## "epinephrine binding"
## "starch binding"
## "methylenetetrahydrofolate dehydrogenase [NAD(P)+] activity"
## "polynucleotide 5'-phosphatase activity"
## "phosphoglycerate dehydrogenase activity"
## "interleukin-1, type II receptor binding"
## "tRNA (cytosine-3-)-methyltransferase activity"
## "phytoceramidase activity"
## "tRNA 2'-O-methyltransferase activity"
## "phospholipase A2 activator activity"
## "6-phosphogluconolactonase activity"
## "K63-linked polyubiquitin modification-dependent protein binding"
## "mevalonate kinase activity"
## "interleukin-1 receptor antagonist activity"
## "calcium sensitive guanylate cyclase activator activity"
## "alkylglycerone-phosphate synthase activity"
## "ATPase activity, coupled to transmembrane movement of ions, phosphorylative mechanism"
## "15-hydroxyprostaglandin dehydrogenase (NAD+) activity"
## "fucose binding"
## "prostaglandin-F synthase activity"

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## "deoxyribodipyrimidine photo-lyase activity"
## "DNA (6-4) photolyase activity"
## "blue light photoreceptor activity"
## "disulfide oxidoreductase activity"
## "endonuclease activity"
## "farnesylated protein binding"
## "proline dehydrogenase activity"
## "chloramphenicol O-acetyltransferase activity"
## "L-cystine transmembrane transporter activity"
## "glycerone-phosphate O-acyltransferase activity"
## "oxidoreductase activity, oxidizing metal ions, NAD or NADP as acceptor"
## "S-methyl-5-thioadenosine phosphorylase activity"
## "protein C-terminal leucine carboxyl O-methyltransferase activity"
## "1-alkenylglycerophosphocholine O-acyltransferase activity"
## "1-alkylglycerophosphocholine O-acyltransferase activity"
## "long-chain-alcohol O-fatty-acyltransferase activity"
## "protein-glycine ligase activity"
## "arachidoyl-CoA:1-dodecanol O-acyltransferase activity"
## "wax ester synthase activity"
## "protein heterodimerization activity"
## "kinase regulator activity"
## "phosphoenolpyruvate carboxykinase activity"
## "Sar guanyl-nucleotide exchange factor activity"
## "high-density lipoprotein particle receptor activity"
## "U12 snRNA binding"
## "alpha-mannosidase activity"
## "plus-end directed microfilament motor activity"
## "phospholipid-translocating ATPase activity"
## "biliverdin reductase activity"
## "heme-transporting ATPase activity"
## "malate dehydrogenase activity"
## "tRNA dihydrouridine synthase activity"
## "carbohydrate response element binding"
## "phosphatidylinositol-3,4-bisphosphate 3-phosphatase activity"
## "exo-alpha-(2->3)-sialidase activity"
## "exo-alpha-(2->6)-sialidase activity"
## "exo-alpha-(2->8)-sialidase activity"
## "integrin binding involved in cell-matrix adhesion"
## "phosphatidylinositol-4-phosphate binding"
## "histone demethylase activity (H4-K20 specific)"
## "amino acid:proton symporter activity"
## "NAD+ diphosphatase activity"
## "GDP-Man:Man3GlcNAc2-PP-Dol alpha-1,2-mannosyltransferase activity"
## "interferon-gamma receptor binding"
## "indoleamine 2,3-dioxygenase activity"
## "ceramide transporter activity"
## "phosphatidylethanolamine transporter activity"
## "squalene monooxygenase activity"
## "inositol-1,3,4,5-tetrakisphosphate 3-phosphatase activity"
## "hydroxymethylglutaryl-CoA reductase (NADPH) activity"
## "hydroxymethylglutaryl-CoA reductase activity"
## "iron-cytochrome-c reductase activity"
## "RNA polymerase II transcription coactivator activity involved in preinitiation complex formation"
## "alpha-1,2-mannosyltransferase activity"

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##      "lactoylglutathione lyase activity"
##      "gamma-glutamyl carboxylase activity"
##      "N-acylsphingosine amidohydrolase activity"
##      "lithium ion binding"
##      "ATP-dependent 5'-3' RNA helicase activity"
##      "gamma-glutamyl-peptidase activity"
##      "prosaposin receptor activity"
##      "voltage-gated ion channel activity involved in regulation of presynaptic membrane"
##      "ceramidase activity"
##      "macrophage colony-stimulating factor receptor binding"
##      "histone methyltransferase activity (H3-K27 specific)"
##      "Rab geranylgeranyltransferase activity"
##      "latrotoxin receptor activity"
##      "serine hydrolase activity"
##      "EP4 subtype prostaglandin E2 receptor binding"
##      "MHC class Ib receptor activity"
##      "UDP-xylosyltransferase activity"
##      "RNA uridylyltransferase activity"
##      "phosphatidic acid transporter activity"
##      "immunoglobulin binding"
##      "thymidine kinase activity"
##      "L-aminoadipate-semialdehyde dehydrogenase activity"
##      "protein-arginine deiminase activity"
##      "xylulokinase activity"
##      "interleukin-10 receptor binding"
##      "calcium-dependent protein kinase inhibitor activity"
##      "betaine-aldehyde dehydrogenase activity"
##      "inositol bisphosphate phosphatase activity"
##      "phosphatidylinositol trisphosphate phosphatase activity"
##      "inositol trisphosphate phosphatase activity"
##      "advanced glycation end-product receptor activity"
##      "structural constituent of presynaptic active zone"
##      "advanced glycation end-product binding"
##      "nitric oxide dioxygenase activity"
##      "histone methyltransferase activity"
##      "polysome binding"
##      "MH1 domain binding"
##      "Y-form DNA binding"
##      "Lys48-specific deubiquitinase activity"
##      "chitinase activity"
##      "mannosyl-oligosaccharide 1,3-1,6-alpha-mannosidase activity"
##      "prolactin receptor activity"
##      NA
##      "GDP-mannose 4,6-dehydratase activity"
##      "sterol delta7 reductase activity"
##      "[myelin basic protein]-arginine N-methyltransferase activity"
##      "hydrolase activity, hydrolyzing N-glycosyl compounds"
##      "glycine-gated chloride ion channel activity"
##      "glucuronylgalactosylproteoglycan 4-beta-N-acetylgalactosaminyltransferase activity"
##      "7-dehydrocholesterol reductase activity"
##      "ligand-gated calcium channel activity"
##      "poly(U)-specific exoribonuclease activity, producing 3' uridine cyclic phosphate"
##      "thromboxane A2 receptor binding"
##      "glycogen (starch) synthase activity"

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## "glycogen synthase activity, transferring glucose-1-phosphate"
## "protein kinase regulator activity"
## "Pyrin domain binding"
## "peptidyl-dipeptidase inhibitor activity"
## "biotin-[acetyl-CoA-carboxylase] ligase activity"
## "biotin-[methylcrotonoyl-CoA-carboxylase] ligase activity"
## "biotin-[methylmalonyl-CoA-carboxytransferase] ligase activity"
## "biotin-[propionyl-CoA-carboxylase (ATP-hydrolyzing)] ligase activity"
## "natriuretic peptide receptor activity"
## "biotin-protein ligase activity"
## "N6-threonylcarbomyladenosine methylthiotransferase activity"
## "nucleoside triphosphate adenylate kinase activity"
## "heparosan-N-sulfate-glucuronate 5-epimerase activity"
## "tRNA (N(6)-L-threonylcarbomyladenosine(37)-C(2))-methylthiotransferase"
## "acetylcholine receptor activity"
## "X11-like protein binding"
## "diamine N-acetyltransferase activity"
## "spermidine binding"
## "peptide receptor activity"
## "1-pyrroline-5-carboxylate dehydrogenase activity"
## "adenosylmethionine decarboxylase activity"
## "guanosine-diphosphatase activity"
## "guanylate cyclase activity"
## "myo-inositol:proton symporter activity"
## "chitin binding"
## "N-acetylglucosamine-6-sulfatase activity"
## "tRNA (guanine) methyltransferase activity"
## "putrescine binding"
## "(alpha-N-acetylneuraminy-2,3-beta-galactosyl-1,3)-N-acetyl-galactosaminide 6-aldolase"
## "NADP+ binding"
## "type I activin receptor binding"
## "ion antiporter activity involved in regulation of postsynaptic membrane potential"
## "mRNA (guanine-N7-)-methyltransferase activity"
## "peptide-aspartate beta-dioxygenase activity"
## "oxidative phosphorylation uncoupler activity"
## "aminobutyraldehyde dehydrogenase activity"
## "MAP kinase phosphatase activity"
## "1-pyrroline dehydrogenase activity"
## "phosphatidylinositol 3-kinase catalytic subunit binding"
## "4-trimethylammoniobutyraldehyde dehydrogenase activity"
## "inositol 5-diphosphate pentakisphosphate 5-kinase activity"
## "inositol diphosphate tetrakisphosphate kinase activity"
## "COPII adaptor activity"
## "DNA replication origin binding"
## "ferric iron binding"
## "oxidoreductase activity, acting on diphenols and related substances as donors"
## "flavonoid 3'-monooxygenase activity"
## "peptidase activator activity"
## "5'-deoxynucleotidase activity"
## "N-acetylglucosaminyldiphosphodolichol N-acetylglucosaminytransferase activity"
## "dopamine:sodium symporter activity"
## "nucleoside-diphosphatase activity"
## "calmodulin-lysine N-methyltransferase activity"
## "dolichyl pyrophosphate Man9GlcNAc2 alpha-1,3-glucosyltransferase activity"

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## "1-alkylglycerophosphocholine O-acetyltransferase activity"
## "tRNA dimethylallyltransferase activity"
## "methylselenol reductase activity"
## "methylseleninic acid reductase activity"
## "phosphoprotein phosphatase activity"
## "phosphatidylcholine transporter activity"
## "O-methyltransferase activity"
## "NAD+ synthase (glutamine-hydrolyzing) activity"
## "asparagine synthase (glutamine-hydrolyzing) activity"
## "dUTP diphosphatase activity"
## "glucosamine 6-phosphate N-acetyltransferase activity"
## "interleukin-12 receptor activity"
## "heparanase activity"
## "interleukin-17 receptor activity"
## "D-tyrosyl-tRNA(Tyr) deacylase activity"
## "fatty-acyl-CoA reductase (alcohol-forming) activity"
## "hypoglycin A gamma-glutamyl transpeptidase activity"
## "alcohol-forming fatty acyl-CoA reductase activity"
## "leukotriene C4 gamma-glutamyl transferase activity"
## "phosphatidylinositol-3,5-bisphosphate phosphatase activity"
## "acetyl-CoA hydrolase activity"
## "very-low-density lipoprotein particle receptor binding"
## "L-alanine transmembrane transporter activity"
## "soluble NSF attachment protein activity"
## "ISG15-specific protease activity"
## "interleukin-1 binding"
## "ribonuclease P RNA binding"
## "sphingomyelin phosphodiesterase D activity"
## "ligase regulator activity"
## "Arp2/3 complex binding"
## "nicotinate-nucleotide diphosphorylase (carboxylating) activity"
## "extracellular matrix protein binding"
## "FAD transmembrane transporter activity"
## "alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase activity"
## "D3 dopamine receptor binding"
## "olfactory receptor binding"
## "acetylgalactosaminyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase activity"
## "glycine N-choloyltransferase activity"
## "CP2 mannose-ethanolamine phosphotransferase activity"
## "very long chain acyl-CoA hydrolase activity"
## "crotonyl-CoA hydratase activity"
## "NADPH binding"
## "PDZ domain binding"
## "cytidylate kinase activity"
## "methylenetetrahydrofolate reductase (NAD(P)H) activity"
## "pantetheine-phosphate adenylyltransferase activity"
## "ribokinase activity"
## "extracellularly glutamate-gated ion channel activity"
## "sodium:bicarbonate symporter activity"
## "IgE receptor activity"
## "BRE binding"
## "L-proline transmembrane transporter activity"
## "ubiquitin-like protein binding"
## "RNA-dependent ATPase activity"

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## "3-hydroxyanthranilate 3,4-dioxygenase activity"
## "GDP-Man:Man1GlcNAc2-PP-Dol alpha-1,3-mannosyltransferase activity"
## "poly(ADP-ribose) glycohydrolase activity"
## "vitamin E binding"
## "ISG15 activating enzyme activity"
## "interleukin-12 alpha subunit binding"
## "intronic transcription regulatory region DNA binding"
## "GDP-Man:Man2GlcNAc2-PP-dolichol alpha-1,6-mannosyltransferase activity"
## "N6-(1,2-dicarboxyethyl)AMP AMP-lyase (fumarate-forming) activity"
## "(S)-2-(5-amino-1-(5-phospho-D-ribosyl)imidazole-4-carboxamido)succinate AMP-lyase"
## "epidermal growth factor binding"
## "four-way junction DNA binding"
## "cysteine-type endopeptidase activity involved in apoptotic signaling pathway"
## "6-pyruvoyltetrahydropterin synthase activity"
## "arachidonate 15-lipoxygenase activity"
## "pristanoyl-CoA oxidase activity"
## "RNA methyltransferase activity"
## "peptidyltransferase activity"
## "RNA-3'-phosphate cyclase activity"
## "arylamine N-acetyltransferase activity"
## "N-acyltransferase activity"
## "glutathione hydrolase activity"
## "activin receptor antagonist activity"
## "N-acylneuraminate-9-phosphate synthase activity"
## "N-acetylneuraminate synthase activity"
## "delayed rectifier potassium channel activity"
## "protein C-terminal carboxyl O-methyltransferase activity"
## "prostaglandin-endoperoxide synthase activity"
## "L-ascorbate:sodium symporter activity"
## "nucleobase transmembrane transporter activity"
## "L-ascorbic acid transmembrane transporter activity"
## "glucosyltransferase activity"
## "AF-1 domain binding"
## "glutathione specific gamma-glutamylcyclotransferase activity"
## "sodium-dependent L-ascorbate transmembrane transporter activity"
## "translation termination factor activity"
## "translation release factor activity, codon specific"
## "Rac guanyl-nucleotide exchange factor activity"
## "Edg-2 lysophosphatidic acid receptor binding"
## "prenyltransferase activity"
## "selenide, water dikinase activity"
## "ornithine decarboxylase inhibitor activity"
## "oxidoreductase activity, acting on the CH-NH2 group of donors, oxygen as acceptor"
## "formaldehyde dehydrogenase activity"
## "nitric-oxide synthase inhibitor activity"
## "interleukin-27 receptor binding"
## "cholestenol delta-isomerase activity"
## "S-(hydroxymethyl)glutathione dehydrogenase activity"
## "glutamate binding"
## "ceramide binding"
## "potassium channel regulator activity"
## "neurotensin receptor activity, non-G protein-coupled"
## "lanosterol synthase activity"
## "phosphoacetylglucosamine mutase activity"

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## "acetylcholine receptor inhibitor activity"
## "enzyme activator activity"
## "cGMP binding"
## "NAD-dependent histone deacetylase activity"
## "phospholipid binding"
## "protein serine/threonine phosphatase inhibitor activity"
## "peptidase activity"
## "phosphatidyl-N-methylethanolamine N-methyltransferase activity"
## "phosphatidylethanolamine N-methyltransferase activity"
## "interleukin-1, type I, activating receptor activity"
## "5-oxoprolinase (ATP-hydrolyzing) activity"
## "interleukin-20 binding"
## "SET domain binding"
## "phosphatidyl-N-dimethylethanolamine N-methyltransferase activity"
## "ganglioside GM2 binding"
## "ganglioside GM3 binding"
## "ganglioside GP1c binding"
## "calcium-release channel activity"
## "calcium- and calmodulin-responsive adenylate cyclase activity"
## "farnesyltranstransferase activity"
## "phosphoribosylaminoimidazole carboxylase activity"
## "phosphoribosylaminoimidazolesuccinocarboxamide synthase activity"
## "dynein intermediate chain binding"
## "phosphatidylinositol phosphate 4-phosphatase activity"
## "CD27 receptor binding"
## "iron-responsive element binding"
## "sphingosine-1-phosphate phosphatase activity"
## "3alpha,7alpha,12alpha-trihydroxy-5beta-cholest-24-enoyl-CoA hydratase activity"
## "17-beta-hydroxysteroid dehydrogenase (NAD+) activity"
## "arginine binding"
## "mitogen-activated protein kinase p38 binding"
## "mannosyl-oligosaccharide 1,2-alpha-mannosidase activity"
## "tetrahydrofolylpolyglutamate synthase activity"
## "steroid delta-isomerase activity"
## "C-rich strand telomeric DNA binding"
## "tyrosine binding"
## "voltage-gated ion channel activity involved in regulation of postsynaptic membran
## "alkane 1-monooxygenase activity"
## "coreceptor activity involved in Wnt signaling pathway, planar cell polarity pathwa
## "telomerase RNA reverse transcriptase activity"
## "template-free RNA nucleotidyltransferase"
## "virus receptor activity"
## "glutamate-gated calcium ion channel activity"
## "exoribonuclease activity, producing 5'-phosphomonoesters"
## "histone kinase activity (H3-S10 specific)"
## "xenobiotic transmembrane transporter activity"
## "interleukin-23 receptor binding"
## "3'-phosphoadenosine 5'-phosphosulfate transmembrane transporter activity"
## "volume-sensitive chloride channel activity"
## "histone kinase activity (H3-T3 specific)"
## "voltage-gated potassium channel activity involved in bundle of His cell action po
## "voltage-gated potassium channel activity involved in SA node cell action potential
## "extracellularly glycine-gated chloride channel activity"
## "VEGF-C-activated receptor activity"

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##      "glutamate decarboxylase activity"
##      "myosin-light-chain-phosphatase activity"
##      "RNA-directed DNA polymerase activity"
##      "RNA polymerase III activity"
##      "protein binding involved in negative regulation of telomere maintenance via telom
##      "carboxylic ester hydrolase activity"
##      "L-iditol 2-dehydrogenase activity"
##      "UDP-glucose 6-dehydrogenase activity"
##      "alpha,alpha-trehalase activity"
##      "prostaglandin-D synthase activity"
##      "hepatocyte growth factor receptor binding"
##      "sphingolipid delta-4 desaturase activity"
##      "histone acetyltransferase activity (H3-K23 specific)"
##      "D-xylulose reductase activity"
##      "ubiquitin-protein transferase inhibitor activity"
##      "[hydroxymethylglutaryl-CoA reductase (NADPH)] kinase activity"
##      "[acetyl-CoA carboxylase] kinase activity"
##      "sphingomyelin phosphodiesterase activity"
##      "purinergic nucleotide receptor activity"
##      "cysteine-tRNA ligase activity"
##      "extracellularly ATP-gated cation channel activity"
##      "racemase and epimerase activity, acting on carbohydrates and derivatives"
##      "GABA receptor activity"
##      "MHC class Ib protein binding, via antigen binding groove"
##      "acetylcholine receptor regulator activity"
##      "SAM domain binding"
##      "ATP-gated ion channel activity"
##      "triacyl lipopeptide binding"
##      "uridine-diphosphatase activity"
##      "mannose-ethanolamine phosphotransferase activity"
##      "voltage-gated calcium channel activity involved SA node cell action potential"
##      "first spliceosomal transesterification activity"
##      "ferric-chelate reductase activity"
##      "ADP-sugar diphosphatase activity"
##      "thyroid hormone receptor coactivator activity"
##      "SUMO transferase activity"
##      "1-phosphatidylinositol-3-phosphate 4-kinase activity"
##      "iduronate-2-sulfatase activity"
##      "myosin II head/neck binding"
##      "pyridoxal phosphatase activity"
##      "ATP-dependent NAD(P)H-hydrate dehydratase activity"
##      "ADP-dependent NAD(P)H-hydrate dehydratase activity"
##      "MADS box domain binding"
##      "inositol-1,3,4,5,6-pentakisphosphate kinase activity"
##      "inositol hexakisphosphate kinase activity"
##      "inositol heptakisphosphate kinase activity"
##      "inositol hexakisphosphate 5-kinase activity"
##      "cGMP-inhibited cyclic-nucleotide phosphodiesterase activity"
##      "dolichyl-phosphate beta-glucosyltransferase activity"
##      "transferase activity, transferring hexosyl groups"
##      "VEGF-A-activated receptor activity"
##      "VEGF-B-activated receptor activity"
##      "placental growth factor-activated receptor activity"
##      "inositol hexakisphosphate 1-kinase activity"

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##      "inositol hexakisphosphate 3-kinase activity"
##      "ganglioside GM1 binding"
##      "protein O-GlcNAc transferase activity"
##      "RNA polymerase II transcription corepressor binding"
##      "copper ion transmembrane transporter activity"
##      "acid-amino acid ligase activity"
##      "adenosine receptor binding"
##      "protein tyrosine phosphatase activator activity"
##      "interleukin-23 binding"
##      "interleukin-23 receptor activity"
##      "sodium:proton antiporter activity involved in regulation of cardiac muscle cell m
##      "demethylase activity"
##      "inositol hexakisphosphate binding"
##      "metal chelating activity"
##      "glycerol-1-phosphatase activity"
##      "copper-dependent protein binding"
##      "glycerol-3-phosphatase activity"
##      "U6atac snRNA binding"
##      "TAP2 binding"
##      "dihydropyrimidinase activity"
##      "UDP-N-acetylglucosamine diphosphorylase activity"
##      "calcium-dependent protein serine/threonine phosphatase regulator activity"
##      "ribonuclease E activity"
##      "aminophospholipid transmembrane transporter activity"
##      "kappa-type opioid receptor binding"
##      "MHC class I receptor activity"
##      "tapasin binding"
##      "deoxycytidine deaminase activity"
##      "lysophospholipid acyltransferase activity"
##      "DNA clamp unloader activity"
##      "diacylglycerol O-acyltransferase activity"
##      "ethanolamine kinase activity"
##      "leptin receptor activity"
##      "MHC class II protein binding"
##      "suramin binding"
##      "8-oxo-GDP phosphatase activity"
##      "8-hydroxy-dADP phosphatase activity"
##      "xylosylprotein 4-beta-galactosyltransferase activity"
##      "phytanate-CoA ligase activity"
##      "pristanate-CoA ligase activity"
##      "toxic substance binding"
##      "sodium channel inhibitor activity"
##      "ubiquitin-like protein ligase binding"
##      "calcium:sodium antiporter activity"
##      "ADP-ribose diphosphatase activity"
##      "methionine-tRNA ligase activity"
##      "interleukin-33 receptor activity"
##      "methylthioribulose 1-phosphate dehydratase activity"
##      "medium-chain acyl-CoA hydrolase activity"
##      "long-chain acyl-CoA hydrolase activity"
##      "hemoglobin binding"
##      "glycoprotein transporter activity"
##      "acyl-CoA oxidase activity"
##      "folic acid binding"

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##      "gamma-glutamylcyclotransferase activity"
##      "2',3'-cyclic-nucleotide 3'-phosphodiesterase activity"
##      "histone pre-mRNA stem-loop binding"
##      "epoxide hydrolase activity"
##      "hydrolase activity, hydrolyzing O-glycosyl compounds"
##      "transposase activity"
##      "rRNA methyltransferase activity"
##      "low-affinity IgG receptor activity"
##      "type I interferon binding"
##      "lipoteichoic acid receptor activity"
##      "oxidised low-density lipoprotein particle receptor activity"
##      "histone-glutamine methyltransferase activity"
##      "long-chain-alcohol oxidase activity"
##      "long-chain-aldehyde dehydrogenase activity"
##      "medium-chain-aldehyde dehydrogenase activity"
##      "leukotriene-B4 20-monooxygenase activity"
##      "sterol 14-demethylase activity"
##      "phospholipid-hydroperoxide glutathione peroxidase activity"
##      "voltage-gated sodium channel activity involved in AV node cell action potential"
##      "voltage-gated sodium channel activity involved in bundle of His cell action poten
##      "voltage-gated sodium channel activity involved in SA node cell action potential"
##      "RNA polymerase I activity"
##      "tRNA-intron endonuclease activity"
##      "catalytic activity"
##      "neurotrophin TRKB receptor binding"
##      "neurotrophin TRKC receptor binding"
##      "acrosin binding"
##      "3R-hydroxyacyl-CoA dehydratase activity"
##      "small protein activating enzyme binding"
##      "MIT domain binding"
##      "potassium:proton exchanging ATPase activity"
##      "NAD-dependent histone deacetylase activity (H4-K16 specific)"
##      "N-terminal protein N-methyltransferase activity"
##      "erythropoietin receptor activity"
##      "FAT10 activating enzyme activity"
##      "somatostatin receptor binding"
##      "kynurenine-glyoxylate transaminase activity"
##      "interleukin-1 receptor binding"
##      "phosphatidylinositol-3,5-bisphosphate binding"
##      "farnesyl-diphosphate farnesyltransferase activity"
##      "protein geranylgeranyltransferase activity"
##      "CAAX-protein geranylgeranyltransferase activity"
##      "squalene synthase activity"
##      "phosphodiesterase decapping endonuclease activity"
##      "NEDD8 transferase activity"
##      "MHC class I protein complex binding"
##      "dolichyl-phosphate-glucose-glycolipid alpha-glucosyltransferase activity"
##      "3-mercaptopyruvate sulfurtransferase activity"
##      "ubiquitin-specific protease activity involved in negative regulation of ERAD pathw
##      "20-hydroxy-leukotriene B4 omega oxidase activity"
##      "20-aldehyde-leukotriene B4 20-monooxygenase activity"
##      "disaccharide binding"
##      "deoxyribonuclease II activity"
##      "ribose-5-phosphate isomerase activity"

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## "granulocyte macrophage colony-stimulating factor receptor binding"
## "sodium:phosphate symporter activity"
## "sodium:potassium:chloride symporter activity"
## "N-acylneuraminate cytidyltransferase activity"
## "cardiolipin synthase activity"
## "sodium:chloride symporter activity"
## "URM1 activating enzyme activity"
## "CDP-diacylglycerol-phosphatidylglycerol phosphatidyltransferase activity"
## "molybdopterin-synthase sulfurtransferase activity"
## "molybdopterin-synthase adenyltransferase activity"
## "translation elongation factor binding"
## "arylsulfatase activity"
## "acetylpyruvate hydrolase activity"
## "deoxyhypusine synthase activity"
## "fumarylpyruvate hydrolase activity"
## "acetylpyruvate hydrolase activity"
## "lipoprotein lipase activator activity"
## "type I transforming growth factor beta receptor binding"
## "ubiquitin-like protein conjugating enzyme binding"
## "2-acylglycerol O-acyltransferase activity"
## "dihydrofolate reductase activity"
## "folate reductase activity"
## "alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase activity"
## "sodium:inorganic phosphate symporter activity"
## "glutaminy-peptide cyclotransferase activity"
## "cysteine-S-conjugate beta-lyase activity"
## "phosphatidylglycerol binding"
## "triglyceride binding"
## "chenodeoxycholic acid binding"
## "actinin binding"
## "nitric oxide transmembrane transporter activity"
## "carbon dioxide transmembrane transporter activity"
## "transcription factor activity, RNA polymerase II core promoter sequence-specific 1"
## "purine-nucleoside phosphorylase activity"
## "pyridoxal kinase activity"
## "long-chain-enoyl-CoA hydratase activity"
## "N-acetylglucosamine synthase activity"
## "cysteine-type endopeptidase activity involved in apoptotic process"
## "haptoglobin binding"
## "cadmium ion binding"
## "deoxyribonuclease I activity"
## "peptidyl-proline dioxygenase activity"
## "collagen receptor activity"
## "rhodopsin kinase activity"
## "dol-P-Man:Man(5)GlcNAc(2)-PP-Dol alpha-1,3-mannosyltransferase activity"
## "protein N-acetylglucosaminyltransferase activity"
## "Formylglycine-generating oxidase activity"
## "galactoside binding"
## "2'-5'-oligoadenylate synthetase activity"
## "metalloendopeptidase inhibitor activity"
## "peptide-N4-(N-acetyl-beta-glucosaminyl)asparagine amidase activity"
## "alpha-N-acetylgalactosaminidase activity"
## "DNA 5'-adenosine monophosphate hydrolase activity"
## "DNA-3'-diphospho-5'-guanosine diphosphatase"

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## "single-strand break-containing DNA binding"
## "interferon-gamma receptor activity"
## "oxidoreductase activity, oxidizing metal ions"
## "hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear a
## "acetylcholine-gated cation-selective channel activity"
## "type II activin receptor binding"
## "1-phosphatidylinositol 4-kinase activity"
## "glycerol transmembrane transporter activity"
## "MutSalph complex binding"
## "1-phosphatidylinositol-4-phosphate 3-kinase activity"
## "RNA polymerase III type 1 promoter sequence-specific DNA binding"
## "RNA polymerase III type 2 promoter sequence-specific DNA binding"
## "NACHT domain binding"
## "voltage-gated sodium channel activity involved in Purkinje myocyte action potenti
## "aryl hydrocarbon receptor activity"
## "chromatin insulator sequence binding"
## "bile-salt sulfotransferase activity"
## "methylcytosine dioxygenase activity"
## "collagen V binding"
## "nucleoside monophosphate kinase activity"
## "UDP-N-acetylglucosamine-lysosomal-enzyme N-acetylglucosaminephosphotransferase ac
## "interleukin-11 receptor activity"
## "N-acetyllactosaminide beta-1,6-N-acetylglucosaminyltransferase activity"
## "interleukin-11 binding"
## "structural constituent of presynapse"
## "G/U mismatch-specific uracil-DNA glycosylase activity"
## "histone methyltransferase activity (H3-R2 specific)"
## "histone methyltransferase activity (H2A-R3 specific)"
## "phospholipid scramblase activity"
## "phospholipase D activity"
## "histone methyltransferase activity (H3-K79 specific)"
## "cGMP-dependent protein kinase activity"
## "peptidyl-histidine dioxygenase activity"
## "peptidyl-asparagine 3-dioxygenase activity"
## "N-acetylglucosamine kinase activity"
## "hypoxia-inducible factor-asparagine oxygenase activity"
## "EH domain binding"
## "water transmembrane transporter activity"
## "beta-N-acetylglucosaminidase activity"
## "[protein]-3-O-(N-acetyl-D-glucosaminy1)-L-threonine O-N-acetyl-alpha-D-glucosamin
## "[protein]-3-O-(N-acetyl-D-glucosaminy1)-L-serine O-N-acetyl-alpha-D-glucosaminase
## "[protein]-3-O-(N-acetyl-D-glucosaminy1)-L-serine/L-threonine O-N-acetyl-alpha-D-g
## "DNA hairpin binding"
## "interleukin-27 receptor activity"
## "signaling pattern recognition receptor activity"
## "retinol dehydrogenase activity"
## "oxygen carrier activity"
## "tyrosine-tRNA ligase activity"
## "deoxycytidyl transferase activity"
## "syntaxin-3 binding"
## "cholesterol 24-hydroxylase activity"
## "glucose-6-phosphate dehydrogenase activity"
## "progesterone receptor binding"
## "phosphatidylinositol-3-phosphatase activity"

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```

## "CARD domain binding"
## "activin receptor binding"
## "activin receptor activity, type II"
## "L27 domain binding"
## "ATP-dependent 5'-3' DNA/RNA helicase activity"
## "proteoglycan binding"
## "acylglycerol lipase activity"
## "L-tryptophan transmembrane transporter activity"
## "GDP-dissociation inhibitor binding"
## "platelet-derived growth factor-activated receptor activity"
## "poly-glutamine tract binding"
## "myosin light chain kinase activity"
## "protein tyrosine/threonine phosphatase activity"
## "Atg12 activating enzyme activity"
## "Atg8 activating enzyme activity"
## "potassium ion transmembrane transporter activity"
## "death receptor binding"
## "voltage-gated calcium channel activity involved in bundle of His cell action poten
## "DH domain binding"
## "HNK-1 sulfotransferase activity"
## "nucleosome binding"
## "cyclin-dependent protein serine/threonine kinase activator activity"
## "polyprenyltransferase activity"
## "single-stranded DNA-dependent ATP-dependent DNA helicase activity"
## "steroid 21-monooxygenase activity"
## "glutamate 5-kinase activity"
## "glutamate-5-semialdehyde dehydrogenase activity"
## "delta1-pyrroline-5-carboxylate synthetase activity"
## "protein binding involved in heterotypic cell-cell adhesion"
## "sterol 12-alpha-hydroxylase activity"
## "25-hydroxycholecalciferol-24-hydroxylase activity"
## "1-alpha,25-dihydroxyvitamin D3 24-hydroxylase activity"
## "7alpha-hydroxycholest-4-en-3-one 12alpha-hydroxylase activity"
## "1-acylglycerophosphocholine O-acyltransferase activity"
## "N-acylphosphatidylethanolamine-specific phospholipase D activity"
## "JAK pathway signal transduction adaptor activity"
## "myristoyl-CoA hydrolase activity"
## "sialate O-acetylerase activity"
## "tripeptidyl-peptidase activity"
## "ErbB-2 class receptor binding"
## "transmembrane receptor protein serine/threonine kinase activity"
## "water channel activity"
## "steroid 7-alpha-hydroxylase activity"
## "voltage-gated cation channel activity"
## "TAP1 binding"
## "G-rich single-stranded DNA binding"
## "odorant binding"
## "collagen binding involved in cell-matrix adhesion"
## "fluorene oxygenase activity"
## "lactose synthase activity"
## "glycogenin glucosyltransferase activity"
## "UDP-alpha-D-glucose:glucosyl-glycogenin alpha-D-glucosyltransferase activity"
## "chondroitin sulfate proteoglycan binding"
## "beta-adrenergic receptor kinase activity"

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## "neuregulin binding"
## "sodium-dependent phosphate transmembrane transporter activity"
## "calcium-dependent protein serine/threonine kinase activity"
## "protein xylosyltransferase activity"
## "[heparan sulfate]-glucosamine 3-sulfotransferase 2 activity"
## "oxidized DNA binding"
## "interferon-gamma binding"
## "UDP-galactosyltransferase activity"
## "monosialoganglioside sialyltransferase activity"
## "N-box binding"
## "macrophage colony-stimulating factor receptor activity"
## "metalloexopeptidase activity"
## "tRNA (guanine-N7-)-methyltransferase activity"
## "interleukin-4 receptor binding"
## "MAP kinase kinase kinase kinase activity"
## "telomeric repeat-containing RNA binding"
## "all-trans retinol 3,4-desaturase activity"
## "all-trans retinal 3,4-desaturase activity"
## "all-trans retinoic acid 3,4-desaturase activity"
## "11-cis-retinal 3,4-desaturase activity"
## "tubulin-glutamic acid ligase activity"
## "1,4-alpha-glucan branching enzyme activity"
## "1,4-alpha-glucan branching enzyme activity (using a glucosylated glycogenin as pr
## "diphosphomevalonate decarboxylase activity"
## "cyclin-dependent protein kinase activity"
## "troponin I binding"
## "lysine N-methyltransferase activity"
## "keratan sulfotransferase activity"
## "growth hormone receptor activity"
## "histone acetyltransferase activity (H4-K12 specific)"
## "histone succinyltransferase activity"
## "N-acetylgalactosamine 4-sulfate 6-O-sulfotransferase activity"
## "arylesterase activity"
## "platelet-derived growth factor beta-receptor activity"
## "box H/ACA snoRNA binding"
## "ammonium transmembrane transporter activity"
## "polynucleotide 5'-hydroxyl-kinase activity"
## "8-oxo-dGDP phosphatase activity"
## "neurotransmitter:sodium symporter activity"
## "dopamine receptor binding"
## "amyloid-beta binding"
## "beta-1,3-galactosyl-0-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransfer
## "tRNA pseudouridine synthase activity"
## "beta-N-acetylhexosaminidase activity"
## "N-acetyl-beta-D-galactosaminidase activity"
## "linear polyubiquitin binding"
## "cation channel activity"
## "histone demethylase activity (H3-K27 specific)"
## "beta-galactosidase activity"
## "N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase activity"
## "DNA-directed 5'-3' RNA polymerase activity"
## "glutamate-cysteine ligase activity"
## "histone acetyltransferase regulator activity"
## "RNA polymerase II sequence-specific DNA-binding transcription factor recruiting a

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## "cysteine-type endopeptidase regulator activity involved in apoptotic process"
## "GMP synthase activity"
## "GMP synthase (glutamine-hydrolyzing) activity"
## "arachidonic acid 14,15-epoxygenase activity"
## "arachidonic acid 11,12-epoxygenase activity"
## "linoleic acid epoxygenase activity"
## "high-affinity arginine transmembrane transporter activity"
## "high-affinity lysine transmembrane transporter activity"
## "endodeoxyribonuclease activity, producing 5'-phosphomonoesters"
## "large ribosomal subunit rRNA binding"
## "3-phosphoinositide-dependent protein kinase activity"
## "voltage-gated sodium channel activity involved in cardiac muscle cell action pote
## "exo-alpha-sialidase activity"
## "sodium ion transmembrane transporter activity"
## "RNA polymerase II transcription regulator recruiting activity"
## "muramyl dipeptide binding"
## "protein tyrosine kinase collagen receptor activity"
## "mannosyl-oligosaccharide glucosidase activity"
## "glucosidase activity"
## "alpha-galactosidase activity"
## "leukotriene-A4 hydrolase activity"
## "ganglioside GT1b binding"
## "hyaluronoglucosaminidase activity"
## "calcidiol 1-monooxygenase activity"
## "type 1 metabotropic glutamate receptor binding"
## "galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase activity"
## "phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase activity"
## "NMDA glutamate receptor activity"
## "isopentenyl-diphosphate delta-isomerase activity"
## "leptomycin B binding"
## "basic amino acid transmembrane transporter activity"
## "voltage-gated calcium channel activity involved in AV node cell action potential"
## "glucagon-like peptide 1 receptor activity"
## "myristoyltransferase activity"
## "RNA polymerase III transcription regulator recruiting activity"
## "dipeptidyl-peptidase activity"
## "myosin II binding"
## "phosphate ion transmembrane transporter activity"
## "LEM domain binding"
## "1-phosphatidylinositol-3-phosphate 5-kinase activity"
## "lipoprotein lipase activity"
## "1-phosphatidylinositol-5-kinase activity"
## "calcitonin gene-related peptide binding"
## "phenylpyruvate tautomerase activity"
## "calcium-dependent ATPase activity"
## "brain-derived neurotrophic factor-activated receptor activity"
## "dGTPase activity"
## "triphosphoric monoester hydrolase activity"
## "dGTP binding"
## "IgE binding"
## "glucocorticoid receptor binding"
## "protein-lysine N-methyltransferase activity"
## "RNA ligase (ATP) activity"
## "aminoacyl-tRNA hydrolase activity"

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##      "GKAP/Homer scaffold activity"
##      "lipase activity"
##      "isoprenoid binding"
##      "steroid 17-alpha-monooxygenase activity"
##      "interleukin-5 receptor activity"
##      "17-alpha-hydroxyprogesterone aldolase activity"
##      "pyrimidine-specific mismatch base pair DNA N-glycosylase activity"
##      "apolipoprotein receptor binding"
##      "opsonin binding"
##      "3'-5'-exodeoxyribonuclease activity"
##      "platelet-derived growth factor alpha-receptor activity"
##      "potassium:chloride symporter activity"
##      "GAF domain binding"
##      "long-chain fatty acid transporter activity"
##      "N-acetylglucosaminyl-proteoglycan 4-beta-glucuronosyltransferase activity"
##      "phosphotransferase activity, alcohol group as acceptor"
##      "telomerase activity"
##      "dopachrome isomerase activity"
##      "hemoglobin alpha binding"
##      "endogenous lipid antigen binding"
##      "exogenous lipid antigen binding"
##      "interleukin-1 receptor activity"
##      "histone demethylase activity (H3-R2 specific)"
##      "histone demethylase activity (H4-R3 specific)"
##      "peptidyl-lysine 5-dioxygenase activity"
##      "galactosylceramide sulfotransferase activity"
##      "voltage-gated potassium channel activity involved in atrial cardiac muscle cell a
##      "interleukin-3 receptor activity"
##      "sodium:proton antiporter activity"
##      "high molecular weight B cell growth factor receptor binding"
##      "interleukin-6 receptor activity"
##      "kainate selective glutamate receptor activity"
##      "interleukin-6 binding"
##      "ornithine decarboxylase activator activity"
##      "glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransf
##      "interleukin-4 receptor activity"
##      "sulfuric ester hydrolase activity"
##      "dehydrodolichyl diphosphate synthase activity"
##      "3'-5' exonuclease activity"
##      "alpha-2B adrenergic receptor binding"
##      "myosin VI light chain binding"
##      "phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase activity"
##      "nucleoside kinase activity"
##      "leukemia inhibitory factor receptor activity"
##      "MHC class Ib protein binding"
##      "protein binding, bridging involved in substrate recognition for ubiquitination"
##      "potassium:proton antiporter activity"
##      "phosphatidylinositol N-acetylglucosaminyltransferase activity"
##      "structural constituent of tooth enamel"
##      "euchromatin binding"
##      "solute:proton antiporter activity"
##      "lactose binding"
##      "peptidyl-lysine acetyltransferase activity"
##      "oligopeptidase activity"

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##      "peptide alpha-N-acetyltransferase activity"
##      "sphinganine kinase activity"
##      "D-erythro-sphingosine kinase activity"
##      "linoleic acid binding"
##      "RNA polymerase I upstream control element sequence-specific DNA binding"
##      "superoxide-generating NADPH oxidase activity"
##      "carbohydrate kinase activity"
##      "dephospho-CoA kinase activity"
##      "DNA topoisomerase (ATP-hydrolyzing) activator activity"
##      "fatty acid alpha-hydroxylase activity"
##      "neurotransmitter transporter activity"
##      "phosphoglycolate phosphatase activity"
##      "serotonin-gated cation-selective channel activity"
##      "Hsp90 protein binding"
##      "alpha-amylase activity"
##      "acetylcholine transmembrane transporter activity"
##      "alpha-amylase activity (releasing maltohexaose)"
##      "beta-glucuronidase activity"
##      "oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor"
##      "chloride transmembrane transporter activity"
##      "Toll-like receptor 2 binding"
##      "deoxyguanosine kinase activity"
##      "mitochondrial sequence-specific DNA-binding transcription factor activity"
##      "G protein-coupled bile acid receptor activity"
##      "ornithine decarboxylase activity"
##      "connexin binding"
##      "cytidine deaminase activity"
##      "crossover junction endodeoxyribonuclease activity"
##      "nucleosome-dependent ATPase activity"
##      "cullin family protein binding"
##      "substance P receptor activity"
##      "corticotropin-releasing hormone activity"
##      "glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase activity"
##      "protein kinase A regulatory subunit binding"
##      "Toll-like receptor 4 binding"
##      "microsatellite binding"
##      "type I interferon receptor activity"
##      "peptide antigen-transporting ATPase activity"
##      "vascular endothelial growth factor receptor 1 binding"
##      "corticotropin-releasing hormone receptor 2 binding"
##      "protein kinase C inhibitor activity"
##      "interleukin-6 receptor binding"
##      "vascular endothelial growth factor receptor 3 binding"
##      "extracellular matrix constituent conferring elasticity"
##      "alpha-1,3-mannosyltransferase activity"
##      "SUMO-specific isopeptidase activity"
##      "peptide transmembrane transporter activity"
##      "G protein-coupled receptor kinase activity"
##      "corticotropin receptor activity"
##      "myosin II heavy chain binding"
##      "fatty acid elongase activity"
##      "cyclin-dependent protein kinase 5 activator activity"
##      "purine-rich negative regulatory element binding"
##      "3-oxo-arachidoyl-CoA synthase activity"

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##      "3-oxo-cerotoyl-CoA synthase activity"
##      "3-oxo-lignoceronyl-CoA synthase activity"
##      "very-long-chain 3-ketoacyl-CoA synthase activity"
##      "0-phospho-L-serine:2-oxoglutarate aminotransferase activity"
##      "procollagen galactosyltransferase activity"
##      "oncostatin-M receptor activity"
##      "glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase activity"
##      "cholesterol 7-alpha-monooxygenase activity"
##      "phosphatidylinositol-3,4,5-trisphosphate binding"
##      "MHC protein binding"
##      "histone methyltransferase activity (H4-K20 specific)"
##      "ATP citrate synthase activity"
##      "retinoid binding"
##      "cation-transporting ATPase activity"
##      "gastric inhibitory peptide receptor activity"
##      "tau-protein kinase activity"
##      "C-4 methylsterol oxidase activity"
##      "RNA pyrophosphohydrolase activity"
##      "long-chain fatty acid binding"
##      "rRNA (uridine-2'-O-)-methyltransferase activity"
##      "Atg12 transferase activity"
##      "proline dipeptidase activity"
##      "non-sequence-specific DNA binding, bending"
##      "purine nucleoside binding"
##      "procollagen-proline 3-dioxygenase activity"
##      "DNA/RNA helicase activity"
##      "beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,3-N-acetylglucosaminyltransferase activity"
##      "secretin receptor activity"
##      "adipokinetic hormone receptor activity"
##      "protein-arginine N-methyltransferase activity"
##      "nucleotide phosphatase activity, acting on free nucleotides"
##      "ribonuclease MRP activity"
##      "oligosaccharide binding"
##      "arrestin family protein binding"
##      "intraciliary transport particle A binding"
##      "Rho-dependent protein serine/threonine kinase activity"
##      "ubiquitinyl hydrolase activity"
##      "6-phosphofructo-2-kinase activity"
##      "tRNA (cytosine-5-)-methyltransferase activity"
##      "3-phosphoinositide-dependent protein kinase binding"
##      "thienylcyclohexylpiperidine binding"
##      "SUMO-specific endopeptidase activity"
##      "RNA 7-methylguanosine cap binding"
##      "olfactory receptor activity"
##      "1-phosphatidylinositol-4-phosphate 5-kinase activity"
##      "store-operated calcium channel activity"
##      "prostaglandin receptor activity"
##      "galactose 3-O-sulfotransferase activity"
##      "proteoglycan sulfotransferase activity"
##      "modification-dependent protein binding"
##      "heparan sulfate 2-O-sulfotransferase activity"
##      "thiosulfate sulfurtransferase activity"
##      "all-trans-retinol binding"
##      "luteinizing hormone receptor activity"

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## "choriogonadotropin hormone receptor activity"
## "nodal binding"
## "choriogonadotropin hormone binding"
## "chemoattractant activity involved in axon guidance"
## "sodium ion binding"
## "phosphatidylinositol-3,4-bisphosphate 5-kinase activity"
## "fructose-2,6-bisphosphate 2-phosphatase activity"
## "oxygen sensor activity"
## "sialyltransferase activity"
## "opsonin receptor activity"
## "rRNA (cytosine-C5-)-methyltransferase activity"
## "galactosyltransferase activity"
## "inositol-1,4,5-trisphosphate 5-phosphatase activity"
## "interleukin-2 receptor activity"
## "interleukin-2 binding"
## "annealing helicase activity"
## "UDP-glucose:glycoprotein glucosyltransferase activity"
## "[heparan sulfate]-glucosamine 3-sulfotransferase 3 activity"
## "calcium-induced calcium release activity"
## "phosphoserine phosphatase activity"
## "efflux transmembrane transporter activity"
## "ubiquitin binding"
## "ATP-dependent microtubule motor activity"
## "calcium channel activity"
## "estrone sulfotransferase activity"
## "protein farnesyltransferase activity"
## "troponin T binding"
## "myosin head/neck binding"
## "bile acid receptor activity"
## "morphogen activity"
## "myosin tail binding"
## "snRNP binding"
## "protein-glutamine gamma-glutamyltransferase activity"
## "tRNA (guanine-N2-)-methyltransferase activity"
## "nerve growth factor receptor binding"
## "satellite DNA binding"
## "beta1-adrenergic receptor activity"
## "RNA polymerase II transcription coactivator binding"
## "delta14-sterol reductase activity"
## "deoxynucleoside kinase activity"
## "erythropoietin receptor binding"
## "intracellular cGMP-activated cation channel activity"
## "ciliary neurotrophic factor receptor binding"
## "alpha-2 macroglobulin receptor activity"
## "apolipoprotein receptor activity"
## "intracellular cAMP-activated cation channel activity"
## "4-alpha-hydroxytetrahydrobiopterin dehydratase activity"
## "RNA polymerase I core binding"
## "interleukin-1, type I receptor binding"
## "oxidoreductase activity, acting on paired donors, with incorporation or reduction"
## "metallocarboxypeptidase activity"
## "polynucleotide adenyltransferase activity"
## "DNA N-glycosylase activity"
## "adiponectin binding"

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##      "sulfurtransferase activity"
##      "growth hormone-releasing hormone receptor binding"
##      "TIR domain binding"
##      "transforming growth factor beta receptor, inhibitory cytoplasmic mediator activity"
##      "pre-mRNA intronic pyrimidine-rich binding"
##      "trace-amine receptor activity"
##      "toxin transmembrane transporter activity"
##      "nitric-oxide synthase binding"
##      "AMP deaminase activity"
##      "hormone receptor binding"
##      "nucleosomal histone binding"
##      "C-3 sterol dehydrogenase (C-4 sterol decarboxylase) activity"
##      "growth hormone secretagogue receptor activity"
##      "sterol-4-alpha-carboxylate 3-dehydrogenase (decarboxylating) activity"
##      "4alpha-carboxy-4beta-methyl-5alpha-cholesta-8-en-3beta-ol:NAD(P)+ 3-oxidoreductase"
##      "4alpha-carboxy-5alpha-cholesta-8-en-3beta-ol:NAD(P)+ 3-dehydrogenase (decarboxylating)"
##      "adenylosuccinate synthase activity"
##      "tRNA-specific adenosine deaminase activity"
##      "molybdopterin synthase activity"
##      "transmembrane receptor protein tyrosine kinase activator activity"
##      "alcohol sulfotransferase activity"
##      "inositol 1,3,4,5 tetrakisphosphate binding"
##      "transcription factor activity, direct ligand regulated sequence-specific DNA binding"
##      "activin-activated receptor activity"
##      "GTPase activating protein binding"
##      "BMP receptor binding"
##      "phospholipase inhibitor activity"
##      "steroid 11-beta-monooxygenase activity"
##      "parathyroid hormone receptor binding"
##      "type 1 parathyroid hormone receptor binding"
##      "corticosterone 18-monooxygenase activity"
##      "oxysterol 7-alpha-hydroxylase activity"
##      "MAP kinase tyrosine/serine/threonine phosphatase activity"
##      "laminin-1 binding"
##      "opsin binding"
##      "inhibin binding"
##      "organic cyclic compound binding"
##      "kinase inhibitor activity"
##      "K6-linked polyubiquitin modification-dependent protein binding"
##      "GTPase inhibitor activity"
##      "corticotropin-releasing hormone binding"
##      "Ras GTPase binding"
##      "acyl-L-homoserine-lactone lactonohydrolase activity"
##      "phosphatidate phosphatase activity"
##      "lipoprotein particle receptor binding"
##      "protein-N-terminal glutamine amidohydrolase activity"
##      "acetyltransferase activator activity"
##      "U6 snRNA binding"
##      "ATPase-coupled anion transmembrane transporter activity"
##      "cytokine receptor binding"
##      "pyrophosphatase activity"
##      "adrenomedullin receptor binding"
##      "endodeoxyribonuclease activity"
##      "alkaline phosphatase activity"

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## "hedgehog receptor activity"
## "hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds"
## "beta3-adrenergic receptor activity"
## "BMP binding"
## "beta-galactoside (CMP) alpha-2,3-sialyltransferase activity"
## "phosphatidylinositol-3,4-bisphosphate binding"
## "vitamin-K-epoxide reductase (warfarin-sensitive) activity"
## "glial cell-derived neurotrophic factor receptor activity"
## "transferase activity, transferring glycosyl groups"
## "translation release factor activity"
## "phosphatase inhibitor activity"
## "interleukin-3 receptor binding"
## "translation repressor activity"
## "sphingomyelin phosphodiesterase activator activity"
## "bicarbonate transmembrane transporter activity"
## "fibrinogen binding"
## "3'-flap-structured DNA binding"
## "microtubule lateral binding"
## "S100 protein binding"
## "structural constituent of postsynaptic intermediate filament cytoskeleton"
## "double-stranded RNA adenosine deaminase activity"
## "histone methyltransferase activity (H3-K36 specific)"
## "telethonin binding"
## "sterol O-acyltransferase activity"
## "carbohydrate:proton symporter activity"
## "minus-end directed microfilament motor activity"
## "glycylpeptide N-tetradecanoyltransferase activity"
## "3-beta-hydroxy-delta5-steroid dehydrogenase activity"
## "beta-3 adrenergic receptor binding"
## "chondroitin 6-sulfotransferase activity"
## "piRNA binding"
## "death receptor activity"
## "double-stranded DNA exodeoxyribonuclease activity"
## "peptidase activator activity involved in apoptotic process"
## "glucocorticoid receptor activity"
## "RNA polymerase II transcription factor activity, glucocorticoid-activated sequence"
## "kinase activity"
## "beta-N-acetylglucosaminylglycopeptide beta-1,4-galactosyltransferase activity"
## "Gq/11-coupled serotonin receptor activity"
## "cadherin binding"
## "poly-purine tract binding"
## "hydroxyacylglutathione hydrolase activity"
## "eukaryotic translation initiation factor 2alpha kinase activity"
## "inositol-1,4,5-trisphosphate 3-kinase activity"
## "troponin C binding"
## "death effector domain binding"
## "lipoteichoic acid binding"
## "mitogen-activated protein kinase kinase kinase binding"
## "oxytocin receptor activity"
## NA
## "repressing transcription factor binding"
## "cholesterol binding"
## "rRNA (guanine) methyltransferase activity"
## "U3 snoRNA binding"

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##      "RNA polymerase II transcription factor activity, estrogen-activated sequence-spec
##      "protein tyrosine kinase binding"
##      "cation binding"
##      "coreceptor activity involved in Wnt signaling pathway"
##      "coreceptor activity involved in canonical Wnt signaling pathway"
##      "RNA polymerase II CTD heptapeptide repeat phosphatase activity"
##      "3'-flap endonuclease activity"
##      "omega peptidase activity"
##      "stem cell factor receptor activity"
##      "flavonol 3-sulfotransferase activity"
##      "ciliary neurotrophic factor receptor activity"
##      "phosphatase binding"
##      "structural constituent of cell wall"
##      "ATPase inhibitor activity"
##      "adenylate cyclase activity"
##      "hemi-methylated DNA-binding"
##      "cysteinyl leukotriene receptor activity"
##      "activin binding"
##      "serum response element binding"
##      "urokinase plasminogen activator receptor activity"
##      "follicle-stimulating hormone receptor activity"
##      "ligand-gated sodium channel activity"
##      "reelin receptor activity"
##      "single-stranded DNA 5'-3' exodeoxyribonuclease activity"
##      "flap endonuclease activity"
##      "double-stranded DNA 5'-3' exodeoxyribonuclease activity"
##      "substance P receptor binding"
##      "thyrotropin-releasing hormone activity"
##      "extracellular matrix constituent, lubricant activity"
##      "transferrin receptor activity"
##      "transferrin transmembrane transporter activity"
##      "calcitonin binding"
##      "pituitary adenylate cyclase activating polypeptide activity"
##      "snRNA binding"
##      "pituitary adenylate cyclase-activating polypeptide receptor binding"
##      "neurotransmitter binding"
##      "leptin receptor binding"
##      "tumor necrosis factor receptor superfamily binding"
##      "purine ribonucleoside triphosphate binding"
##      "STAT family protein binding"
##      "zinc ion transmembrane transporter activity"
##      "parathyroid hormone receptor activity"
##      "glycerol kinase activity"
##      "SUMO activating enzyme activity"
##      "natural killer cell lectin-like receptor binding"
##      "thyrotropin-releasing hormone receptor activity"
##      "endoplasmic reticulum signal peptide binding"
##      "voltage-gated chloride channel activity"
##      "orexigenic neuropeptide QRFP receptor binding"
##      "sialic acid binding"
##      "follicle-stimulating hormone activity"
##      "cell adhesion molecule binding"
##      "inward rectifier potassium channel inhibitor activity"
##      "voltage-gated calcium channel activity involved in cardiac muscle cell action pot

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##      "amidophosphoribosyltransferase activity"
##      "receptor tyrosine kinase-like orphan receptor binding"
##      "hepatocyte growth factor-activated receptor activity"
##      "folic acid receptor activity"
##      "steroid hormone receptor binding"
##      "transforming growth factor beta receptor activity, type I"
##      "2-acylglycerol-3-phosphate O-acyltransferase activity"
##      "methotrexate binding"
##      "histone demethylase activity (H3-dimethyl-K4 specific)"
##      "A1 adenosine receptor binding"
##      "ADP-activated adenosine receptor activity"
##      "bioactive lipid receptor activity"
##      "bombesin receptor activity"
##      "AMPA glutamate receptor activity"
##      "delta-catenin binding"
##      "oxidized purine nucleobase lesion DNA N-glycosylase activity"
##      "3',5'-cyclic-AMP phosphodiesterase activity"
##      "thromboxane A2 receptor activity"
##      "single-stranded DNA 3'-5' exodeoxyribonuclease activity"
##      "arachidonic acid epoxygenase activity"
##      "N-acetylglucosamine deacetylase activity"
##      "vitamin D binding"
##      "double-stranded DNA 3'-5' exodeoxyribonuclease activity"
##      "steroid receptor RNA activator RNA binding"
##      "ferric iron transmembrane transporter activity"
##      "phospholipase A2 activity"
##      "histone kinase activity"
##      "DNA topoisomerase type I activity"
##      "type 3 metabotropic glutamate receptor binding"
##      "N-terminal myristoylation domain binding"
##      "phosphorylase kinase regulator activity"
##      "ghrelin receptor binding"
##      "inositol-1,3,4,5-tetrakisphosphate 5-phosphatase activity"
##      "histone methyltransferase activity (H3-R17 specific)"
##      "fibroblast growth factor-activated receptor activity"
##      "histone-dependent DNA binding"
##      "DNA translocase activity"
##      "dehydroascorbic acid transmembrane transporter activity"
##      "angiotensin type I receptor activity"
##      "Wnt-activated receptor activity"
##      "ankyrin repeat binding"
##      "type 1 fibroblast growth factor receptor binding"
##      "threonine-type endopeptidase activity"
##      "neurotransmitter receptor activity involved in regulation of postsynaptic membran
##      "interleukin-7 receptor activity"
##      "potassium channel inhibitor activity"
##      "D5 dopamine receptor binding"
##      "excitatory extracellular ligand-gated ion channel activity"
##      "pre-mRNA 5'-splice site binding"
##      "H3 histone acetyltransferase activity"
##      "thyroid-stimulating hormone receptor activity"
##      "heparan sulfate 6-O-sulfotransferase activity"
##      "protein kinase A binding"
##      "opioid receptor binding"

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## "bradykinin receptor binding"
## "iron ion binding"
## "type 2 fibroblast growth factor receptor binding"
## "structural molecule activity conferring elasticity"
## "chemokine (C-C motif) ligand 2 binding"
## "chemokine (C-C motif) ligand 12 binding"
## "motilin receptor binding"
## "oxytocin receptor binding"
## "laminin binding"
## "bubble DNA binding"
## "kisspeptin receptor binding"
## "arachidonic acid binding"
## "structural constituent of myelin sheath"
## "type 1 hypocretin receptor binding"
## "type 2 hypocretin receptor binding"
## "procollagen-lysine 5-dioxygenase activity"
## "procollagen glucosyltransferase activity"
## "transcription termination site sequence-specific DNA binding"
## "PH domain binding"
## "netrin receptor activity"
## "tRNA guanylyltransferase activity"
## "DNA topoisomerase activity"
## "tubulin-dependent ATPase activity"
## "exon-exon junction complex binding"
## "phosphatidylinositol phosphate 5-phosphatase activity"
## "oxysterol binding"
## "vitamin D response element binding"
## "protein-lysine 6-oxidase activity"
## "phosphatidylinositol-3-phosphate binding"
## "exoribonuclease activity"
## "E-box binding"
## "oxidoreductase activity, acting on single donors with incorporation of molecular oxygen"
## "14-3-3 protein binding"
## "angiostatin binding"
## "intracellularly ATP-gated chloride channel activity"
## "lipopeptide binding"
## "ATP-dependent polydeoxyribonucleotide 5'-hydroxyl-kinase activity"
## "exonuclease activity"
## "exodeoxyribonuclease III activity"
## "myosin phosphatase activity"
## "actin monomer binding"
## "lipid transporter activity"
## "CCR2 chemokine receptor binding"
## "substance K receptor activity"
## "sterol binding"
## "distal enhancer DNA-binding transcription repressor activity, RNA polymerase II-specific"
## "calcitriol receptor activity"
## "lithocholic acid receptor activity"
## "calcitriol binding"
## "lithocholic acid binding"
## "phosphatidylinositol 3-kinase activity"
## "fatty acid transmembrane transporter activity"
## "transmembrane receptor protein tyrosine kinase activity"
## "CCR3 chemokine receptor binding"

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##      "5'-flap endonuclease activity"
##      "calcitonin receptor binding"
##      "insulin-activated receptor activity"
##      "mannose transmembrane transporter activity"
##      "3'-phosphoadenosine 5'-phosphosulfate binding"
##      "transcription regulator recruiting activity"
##      "cholesterol O-acyltransferase activity"
##      "5'-3' exodeoxyribonuclease activity"
##      "CD40 receptor binding"
##      "JUN kinase binding"
##      "estrogen response element binding"
##      "type III transforming growth factor beta receptor binding"
##      "platelet activating factor receptor activity"
##      "mineralocorticoid receptor activity"
##      "steroid hormone binding"
##      "G protein-coupled neurotransmitter receptor activity involved in regulation of po
##      "protease binding"
##      "lipid binding"
##      "voltage-gated sodium channel activity"
##      "heparan sulfate N-acetylglucosaminyltransferase activity"
##      "structural constituent of postsynaptic density"
##      "superoxide-generating NADPH oxidase activator activity"
##      "transforming growth factor beta receptor, cytoplasmic mediator activity"
##      "G-protein activated inward rectifier potassium channel activity"
##      "angiotensin type II receptor activity"
##      "purine nucleotide binding"
##      "ribosomal protein S6 kinase activity"
##      "kinase activator activity"
##      "carbohydrate binding"
##      "endothelin A receptor binding"
##      "intronic transcription regulatory region sequence-specific DNA binding"
##      "high-density lipoprotein particle receptor binding"
##      "growth hormone-releasing hormone receptor activity"
##      "semaphorin receptor binding"
##      "hedgehog family protein binding"
##      "gastrin receptor activity"
##      "type B gastrin/cholecystokinin receptor binding"
##      "adrenomedullin binding"
##      "POU domain binding"
##      "5'-deoxyribose-5-phosphate lyase activity"
##      "inositol-polyphosphate 5-phosphatase activity"
##      "interleukin-5 receptor binding"
##      "guanylate kinase activity"
##      "acetylglucosaminyltransferase activity"
##      "sterol transporter activity"
##      "polydeoxyribonucleotide kinase activity"
##      "ATP-dependent polyribonucleotide 5'-hydroxyl-kinase activity"
##      "insulin-like growth factor-activated receptor activity"
##      "high voltage-gated calcium channel activity"
##      "retinoic acid 4-hydroxylase activity"
##      "U5 snRNA binding"
##      "vascular endothelial growth factor receptor binding"
##      "extracellular matrix binding"
##      "N-acetylglucosaminide beta-1,3-N-acetylglucosaminyltransferase activity"

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## "phosphodiesterase I activity"
## "Toll-like receptor binding"
## "CXCR5 chemokine receptor binding"
## "DNA binding, bending"
## "protein domain specific binding"
## "C5L2 anaphylatoxin chemotactic receptor binding"
## "GMP binding"
## "D1 dopamine receptor binding"
## "peptide-serine-N-acetyltransferase activity"
## "histone kinase activity (H3-T11 specific)"
## "apelin receptor binding"
## "transforming growth factor beta receptor binding"
## "IgG binding"
## "lipoprotein particle binding"
## "1-phosphatidylinositol binding"
## "uracil DNA N-glycosylase activity"
## "single-stranded telomeric DNA binding"
## "neurotransmitter receptor activity involved in regulation of presynaptic cytosoli
## "RNA strand-exchange activity"
## "dynorphin receptor activity"
## "peptide-glutamate-N-acetyltransferase activity"
## "complement component C3a receptor activity"
## "JUN kinase kinase activity"
## "sterol response element binding"
## "unmethylated CpG binding"
## "drug binding"
## "chemokine (C-C motif) ligand 19 binding"
## "chemokine (C-C motif) ligand 21 binding"
## "C-C motif chemokine 19 receptor activity"
## "C-C motif chemokine 21 receptor activity"
## "pre-mRNA branch point binding"
## "phosphatidylcholine-sterol O-acyltransferase activator activity"
## "forked DNA-dependent helicase activity"
## "kringle domain binding"
## "enkephalin receptor activity"
## "5-oxo-6E,8Z,11Z,14Z-icosatetraenoic acid binding"
## "5-hydroxy-6E,8Z,11Z,14Z-icosatetraenoic acid binding"
## "5(S)-hydroxyperoxy-6E,8Z,11Z,14Z-icosatetraenoic acid binding"
## "complement component C5a binding"
## "adenylate cyclase activator activity"
## "type 1 galanin receptor binding"
## "type 2 galanin receptor binding"
## "type 3 galanin receptor binding"
## "DNA clamp loader activity"
## "bone sialoprotein binding"
## "voltage-gated calcium channel activity involved in regulation of cytosolic calcium
## "acetylgalactosaminyltransferase activity"
## "phosphatidylinositol bisphosphate binding"
## "dopamine neurotransmitter receptor activity, coupled via Gs"
## "complement component C5a receptor activity"
## "smoothened binding"
## "acetylcholine binding"
## "myosin heavy chain binding"
## "beta-adrenergic receptor activity"

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## "nicotinic acid receptor activity"
## "ErbB-3 class receptor binding"
## "cysteine-type endopeptidase inhibitor activity"
## "type I interferon receptor binding"
## "receptor signaling complex scaffold activity"
## "9-cis retinoic acid receptor activity"
## "ubiquitin modification-dependent histone binding"
## "activin receptor activity, type I"
## "corticotrophin-releasing factor receptor activity"
## "3-hydroxyacyl-CoA dehydratase activity"
## "siRNA binding"
## "corticotropin-releasing hormone receptor activity"
## "very-long-chain 3-hydroxyacyl-CoA dehydratase activity"
## "3-hydroxy-arachidoyl-CoA dehydratase activity"
## "3-hydroxy-behenoyl-CoA dehydratase activity"
## "3-hydroxy-lignoceroyl-CoA dehydratase activity"
## "class I DNA-(apurinic or apyrimidinic site) endonuclease activity"
## "flap-structured DNA binding"
## "nociceptin receptor activity"
## "syndecan binding"
## "stearoyl-CoA 9-desaturase activity"
## "cell-cell adhesion mediator activity"
## "ubiquitin conjugating enzyme activity"
## "inhibitory extracellular ligand-gated ion channel activity"
## "thyroid hormone receptor activity"
## "CCR6 chemokine receptor binding"
## "steroid sulfotransferase activity"
## "DNA-dependent ATPase activity"
## "uridine nucleotide receptor activity"
## "structural constituent of synapse"
## "adrenomedullin receptor activity"
## "NAD(P)+-protein-arginine ADP-ribosyltransferase activity"
## "neuropeptide Y receptor binding"
## "intraciliary transport particle B binding"
## "DNA primase activity"
## "core promoter binding"
## "peptide antigen binding"
## "histone demethylase activity (H3-K36 specific)"
## "beta-2 adrenergic receptor binding"
## "3'-5'-exoribonuclease activity"
## "N-acetylgalactosamine 4-O-sulfotransferase activity"
## "vascular endothelial growth factor receptor 2 binding"
## "ISG15 transferase activity"
## "histone demethylase activity (H3-K4 specific)"
## "11-cis retinal binding"
## "glucagon receptor binding"
## "insulin-like growth factor binding"
## "Rac GTPase binding"
## "G protein-coupled photoreceptor activity"
## "group III metabotropic glutamate receptor activity"
## "adenylate cyclase inhibitor activity"
## "oxidized pyrimidine DNA binding"
## "chondroitin 4-sulfotransferase activity"
## "very-low-density lipoprotein particle receptor activity"

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##      "actin binding"
##      "histone demethylase activity (H3-trimethyl-K4 specific)"
##      "endoribonuclease activity"
##      "phosphatidic acid binding"
##      "telomeric G-quadruplex DNA binding"
##      "8-hydroxy-2'-deoxyguanosine DNA binding"
##      "UDP-galactose:beta-N-acetylglucosamine beta-1,3-galactosyltransferase activity"
##      "GABA-gated chloride ion channel activity"
##      "monooxygenase activity"
##      "histone kinase activity (H3-Y41 specific)"
##      "DBD domain binding"
##      "[heparan sulfate]-glucosamine N-sulfotransferase activity"
##      "C-X-C chemokine binding"
##      "N-acetyltransferase activity"
##      "interleukin-8 receptor binding"
##      "CTPase activity"
##      "calcitonin receptor activity"
##      "chemorepellent activity"
##      "MDM2/MDM4 family protein binding"
##      "oxidoreductase activity, acting on a sulfur group of donors, disulfide as acceptor"
##      "V2 vasopressin receptor binding"
##      "protein ADP-ribosylase activity"
##      "molecular function regulator"
##      "melanocyte-stimulating hormone receptor activity"
##      "G protein-coupled neurotensin receptor activity"
##      "steroid hormone receptor activity"
##      "rDNA binding"
##      "cytokine activity"
##      "mitogen-activated protein kinase binding"
##      "chloride channel regulator activity"
##      "retinoic acid binding"
##      "adenylate cyclase inhibiting G protein-coupled glutamate receptor activity"
##      "phosphatase activity"
##      "thrombospondin receptor activity"
##      "insulin binding"
##      "vinculin binding"
##      "keratin filament binding"
##      "1-(4-iodo-2,5-dimethoxyphenyl)propan-2-amine binding"
##      "DNA-methyltransferase activity"
##      "rRNA binding"
##      "histone kinase activity (H3-T6 specific)"
##      "histone demethylase activity (H3-K9 specific)"
##      "beta-endorphin receptor activity"
##      "growth hormone receptor binding"
##      "morphine receptor activity"
##      "site-specific endodeoxyribonuclease activity, specific for altered base"
##      "interleukin-8 binding"
##      "UDP-activated nucleotide receptor activity"
##      "steroid hydroxylase activity"
##      "phosphothreonine residue binding"
##      "gonadotropin hormone-releasing hormone activity"
##      "gonadotropin-releasing hormone receptor binding"
##      "receptor signaling protein tyrosine kinase activator activity"
##      "CCR4 chemokine receptor binding"

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##      "chemokine receptor antagonist activity"
##      "GABA-A receptor activity"
##      "chloride ion binding"
##      "estrogen receptor activity"
##      "channel regulator activity"
##      "phospholipid transporter activity"
##      "phosphatase activator activity"
##      "semaphorin receptor activity"
##      "RAGE receptor binding"
##      "DNA-(apurinic or apyrimidinic site) endonuclease activity"
##      "neurexin family protein binding"
##      "transforming growth factor beta receptor activity, type II"
##      "alpha1-adrenergic receptor activity"
##      "LBD domain binding"
##      "molecular adaptor activity"
##      "sequence-specific single stranded DNA binding"
##      "armadillo repeat domain binding"
##      "polyamine binding"
##      "protein membrane anchor"
##      "telomeric D-loop binding"
##      "ADP-ribosylation factor binding"
##      "SUMO polymer binding"
##      "chloride channel activity"
##      "WD40-repeat domain binding"
##      "four-way junction helicase activity"
##      "muscle alpha-actinin binding"
##      "RNA polymerase III type 3 promoter DNA binding"
##      "lipoprotein transporter activity"
##      "RNA polymerase II activating transcription factor binding"
##      "urotensin II receptor activity"
##      "androgen receptor activity"
##      "phosphatidylinositol-3,5-bisphosphate 3-phosphatase activity"
##      "regulatory region RNA binding"
##      "RNA polymerase II general transcription initiation factor activity"
##      "helicase activity"
##      "phospholipase activator activity"
##      "adrenergic receptor activity"
##      "prostaglandin J receptor activity"
##      "prostaglandin D receptor activity"
##      "5.8S rRNA binding"
##      "SUMO ligase activity"
##      "type 2 angiotensin receptor binding"
##      "RING-like zinc finger domain binding"
##      "oxidoreductase activity, acting on paired donors, with incorporation or reduction
##      "histone acetyltransferase activity (H4-K5 specific)"
##      "histone acetyltransferase activity (H4-K8 specific)"
##      "histone acetyltransferase activity (H4-K16 specific)"
##      "protein serine/threonine kinase activator activity"
##      "protein tyrosine phosphatase activity"
##      "filamin binding"
##      "myosin light chain binding"
##      "transcription cofactor binding"
##      "tachykinin receptor activity"
##      "phosphatase regulator activity"

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## "CCR7 chemokine receptor binding"
## "vascular endothelial growth factor binding"
## "RNA-DNA hybrid ribonuclease activity"
## "second spliceosomal transesterification activity"
## "[heparan sulfate]-glucosamine 3-sulfotransferase 1 activity"
## "histone deacetylase regulator activity"
## "growth hormone-releasing hormone activity"
## "ubiquitin conjugating enzyme binding"
## "transcription factor activity, sequence-specific DNA binding, RNA polymerase recr
## "complement binding"
## "ATP-dependent helicase activity"
## "transferrin receptor binding"
## "steroid binding"
## "protein kinase C binding"
## "histone acetyltransferase activity"
## "dioxygenase activity"
## "double-stranded methylated DNA binding"
## "type 1 neuromedin U receptor binding"
## "type 2 neuromedin U receptor binding"
## "neuromedin U receptor binding"
## "calcitonin gene-related peptide receptor activity"
## "orexin receptor activity"
## "vasoactive intestinal polypeptide receptor activity"
## "polypeptide N-acetylgalactosaminyltransferase activity"
## "prostaglandin F receptor activity"
## "TFIIIC-class transcription factor complex binding"
## "chemokine (C-C motif) ligand 7 binding"
## "phosphatidylinositol-3,5-bisphosphate 5-phosphatase activity"
## "cysteine-type endopeptidase activator activity involved in apoptotic process"
## "glycosaminoglycan binding"
## "palmitoyltransferase activity"
## "leukotriene B4 receptor activity"
## "corticotropin-releasing hormone receptor 1 binding"
## "U7 snRNA binding"
## "integrin binding"
## "melanin-concentrating hormone receptor activity"
## "enhancer binding"
## "NAD-dependent histone deacetylase activity (H3-K9 specific)"
## "tumor necrosis factor receptor binding"
## "eukaryotic initiation factor 4E binding"
## "V1B vasopressin receptor binding"
## "hormone binding"
## "G protein-coupled receptor activity involved in regulation of postsynaptic membran
## "ATP-dependent 3'-5' DNA/RNA helicase activity"
## "single-stranded DNA-dependent ATP-dependent 3'-5' DNA helicase activity"
## "Rab guanyl-nucleotide exchange factor activity"
## "RNA polymerase III general transcription initiation factor activity"
## "beta-2-microglobulin binding"
## "UTP-activated nucleotide receptor activity"
## "extracellular matrix structural constituent conferring tensile strength"
## "vascular endothelial growth factor-activated receptor activity"
## "transforming growth factor beta receptor, common-partner cytoplasmic mediator act.
## "estrogen receptor binding"
## "melatonin receptor activity"

```



```

## "cell adhesive protein binding involved in bundle of His cell-Purkinje myocyte com
## "ATP-activated adenosine receptor activity"
## "retinoid X receptor binding"
## "histone serine kinase activity"
## "C-8 sterol isomerase activity"
## "nuclear receptor activity"
## "7S RNA binding"
## "rRNA primary transcript binding"
## "RNA polymerase II intronic transcription regulatory region sequence-specific DNA
## "ADP receptor activity"
## "melanocortin receptor activity"
## "glycosphingolipid binding"
## "mitogen-activated protein kinase kinase binding"
## "receptor-receptor interaction"
## "heparan sulfate proteoglycan binding"
## "chemokine (C-C motif) ligand 5 binding"
## "cytokine binding"
## "selenocysteine insertion sequence binding"
## "interleukin-12 receptor binding"
## "nucleoside-triphosphate diphosphatase activity"
## "protein serine/threonine kinase inhibitor activity"
## "endothelin receptor activity"
## "L-ascorbic acid binding"
## "platelet-derived growth factor binding"
## "lipopolysaccharide receptor activity"
## "G protein-coupled neurotransmitter receptor activity involved in regulation of po
## "extracellular matrix structural constituent conferring compression resistance"
## "Fc-gamma receptor I complex binding"
## "melanin-concentrating hormone activity"
## "triplex DNA binding"
## "MH2 domain binding"
## "insulin-like growth factor II binding"
## "mineralocorticoid receptor binding"
## "amylin receptor activity"
## "transition metal ion binding"
## "double-stranded DNA-dependent ATPase activity"
## "DNA/DNA annealing activity"
## "extracellular ligand-gated ion channel activity"
## "receptor antagonist activity"
## "intracellular calcium activated chloride channel activity"
## "calcium-dependent protein kinase C activity"
## "poly(A)-specific ribonuclease activity"
## "SNARE binding"
## "ion channel inhibitor activity"
## "sphingolipid binding"
## "cyclin-dependent protein serine/threonine kinase inhibitor activity"
## "JUN kinase activity"
## "RNA-directed 5'-3' RNA polymerase activity"
## "mannose binding"
## "type 3 melanocortin receptor binding"
## "type 4 melanocortin receptor binding"
## "type 1 melanocortin receptor binding"
## "glucagon receptor activity"
## "interleukin-8 receptor activity"

```

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## "cholecystokinin receptor activity"
## "single-stranded DNA-dependent ATPase activity"
## "alpha-2C adrenergic receptor binding"
## "translation initiation factor binding"
## "platelet activating factor receptor binding"
## "N-acetylglucosamine 6-O-sulfotransferase activity"
## "protein phosphatase 1 binding"
## "DNA-dependent protein kinase activity"
## "glutamate receptor binding"
## "DNA (cytosine-5-)-methyltransferase activity"
## "retinoic acid-responsive element binding"
## "D2 dopamine receptor binding"
## "SUMO conjugating enzyme activity"
## "nuclease activity"
## "transforming growth factor beta-activated receptor activity"
## "ephrin receptor activity"
## "small ribosomal subunit rRNA binding"
## "DNA-binding transcription repressor activity, RNA polymerase II-specific"
## "clathrin binding"
## "snRNA stem-loop binding"
## "ribonucleoprotein complex binding"
## "phosphatidylinositol binding"
## "3'-5' DNA helicase activity"
## "H4 histone acetyltransferase activity"
## "AP-2 adaptor complex binding"
## "RNA polymerase III type 1 promoter DNA binding"
## "RNA polymerase III type 2 promoter DNA binding"
## "histone methyltransferase activity (H3-K9 specific)"
## "ribonuclease P activity"
## "ribonuclease activity"
## "GTP-Rho binding"
## "NAD-dependent histone deacetylase activity (H3-K14 specific)"
## NA
## "thiol-dependent ubiquitinyl hydrolase activity"
## "protein kinase C activity"
## "RISC complex binding"
## "alpha-catenin binding"
## "protein propionyltransferase activity"
## "peptide butyryltransferase activity"
## "histone crotonyltransferase activity"
## "histone butyryltransferase activity"
## "enzyme inhibitor activity"
## "CCR5 chemokine receptor binding"
## "double-stranded telomeric DNA binding"
## "V1A vasopressin receptor binding"
## "phosphatidylinositol-4,5-bisphosphate binding"
## "calmodulin binding"
## "transcription factor activity, RNA polymerase II proximal promoter sequence-speci
## "structural constituent of epidermis"
## "insulin-like growth factor I binding"
## "protein phosphatase inhibitor activity"
## "ATP-dependent microtubule motor activity, minus-end-directed"
## "retinoic acid receptor binding"
## "protein-cysteine S-palmitoyltransferase activity"

```

```

##      "DNA-directed DNA polymerase activity"
##      "alpha-2A adrenergic receptor binding"
##      "phosphatidylinositol 3-kinase regulator activity"
##      "neurotransmitter receptor activity involved in regulation of postsynaptic cytosol
##      "RNA polymerase II CTD heptapeptide repeat kinase activity"
##      "tropomyosin binding"
##      "supercoiled DNA binding"
##      "dystroglycan binding"
##      "CXCR chemokine receptor binding"
##      "opioid peptide activity"
##      "anaphase-promoting complex binding"
##      "R-SMAD binding"
##      "group II metabotropic glutamate receptor activity"
##      "aromatase activity"
##      "leukotriene receptor activity"
##      "telomerase RNA binding"
##      "type 5 metabotropic glutamate receptor binding"
##      "axon guidance receptor activity"
##      "poly-pyrimidine tract binding"
##      "type II transforming growth factor beta receptor binding"
##      "growth factor binding"
##      "G protein-coupled serotonin receptor binding"
##      "dopamine neurotransmitter receptor activity"
##      "cysteine-type peptidase activity"
##      "transmitter-gated ion channel activity involved in regulation of postsynaptic mem
##      "RNA polymerase II C-terminal domain binding"
##      "TFIIB-class transcription factor binding"
##      "phosphorylation-dependent protein binding"
##      "TFIIH-class transcription factor complex binding"
##      "signaling adaptor activity"
##      "scavenger receptor binding"
##      "G protein-coupled GABA receptor activity"
##      "HLH domain binding"
##      "G protein-coupled receptor binding"
##      "GTPase binding"
##      "cadherin binding involved in cell-cell adhesion"
##      "neurohypophyseal hormone activity"
##      "aryl sulfotransferase activity"
##      "eukaryotic initiation factor eIF2 binding"
##      "histone methyltransferase activity (H3-K4 specific)"
##      "alpha-1A adrenergic receptor binding"
##      "angiotensin receptor binding"
##      "follicle-stimulating hormone receptor binding"
##      "Rho GTPase binding"
##      "PTB domain binding"
##      "CCR10 chemokine receptor binding"
##      "GBD domain binding"
##      "CCR1 chemokine receptor binding"
##      "retinoic acid receptor activity"
##      "histone pre-mRNA DCP binding"
##      "Ral GTPase binding"
##      "cysteine-type endopeptidase activity"
##      "peptide YY receptor activity"
##      "cyclin-dependent protein serine/threonine kinase regulator activity"

```

```

##      "calcium channel regulator activity"
##      "activating transcription factor binding"
##      "NFAT protein binding"
##      "signal recognition particle binding"
##      "protein kinase B binding"
##      "transmembrane receptor protein tyrosine phosphatase activity"
##      "Wnt-protein binding"
##      "MRF binding"
##      "histone demethylase activity"
##      "AT DNA binding"
##      "kinetochore binding"
##      "RNA strand annealing activity"
##      "ubiquitin-ubiquitin ligase activity"
##      "cytokine receptor activity"
##      "patched binding"
##      "nucleic acid binding"
##      "protein serine/threonine/tyrosine kinase activity"
##      "non-membrane spanning protein tyrosine phosphatase activity"
##      NA
##      "alpha2-adrenergic receptor activity"
##      "poly(G) binding"
##      "thioesterase binding"
##      "peptide-lysine-N-acetyltransferase activity"
##      "coreceptor activity"
##      "extracellular matrix structural constituent"
##      "lysophosphatidic acid binding"
##      "voltage-gated calcium channel activity"
##      "nucleoside-triphosphatase activity"
##      "mu-type opioid receptor binding"
##      "methyl-CpG binding"
##      "pancreatic polypeptide receptor activity"
##      "phospholipase A2 inhibitor activity"
##      "microtubule minus-end binding"
##      "LRR domain binding"
##      "aryl hydrocarbon receptor binding"
##      "DNA topoisomerase binding"
##      "CD8 receptor binding"
##      "bradykinin receptor activity"
##      "dynein heavy chain binding"
##      "C2H2 zinc finger domain binding"
##      "CD4 receptor binding"
##      "heterotrimeric G-protein binding"
##      "prostaglandin E receptor activity"
##      "cytoskeletal adaptor activity"
##      "dynein light chain binding"
##      "cannabinoid receptor activity"
##      "low-density lipoprotein particle receptor activity"
##      "RNA polymerase II complex binding"
##      "histamine receptor activity"
##      "G protein-coupled adenosine receptor activity"
##      "co-SMAD binding"
##      "lysine N-acetyltransferase activity, acting on acetyl phosphate as donor"
##      "endothelin B receptor binding"
##      "apolipoprotein A-I receptor binding"

```

```

##      "clathrin heavy chain binding"
##      "cargo receptor activity"
##      "alpha-actinin binding"
##      "platelet-derived growth factor receptor binding"
##      "neuropeptide Y receptor activity"
##      "MHC class II receptor activity"
##      "protein tyrosine kinase inhibitor activity"
##      "RNA polymerase II regulatory region DNA binding"
##      "RS domain binding"
##      "pre-mRNA 3'-splice site binding"
##      "serine-type endopeptidase inhibitor activity"
##      "ATP-dependent 3'-5' DNA helicase activity"
##      "distal enhancer DNA-binding transcription activator activity, RNA polymerase II-s
##      "calcium-dependent phospholipid binding"
##      NA
##      "ATP-dependent RNA helicase activity"
##      "dopamine neurotransmitter receptor activity, coupled via Gi/Go"
##      "scavenger receptor activity"
##      "syntaxin binding"
##      "neuromedin U receptor activity"
##      "neuromedin U binding"
##      "collagen binding"
##      "U2 snRNA binding"
##      "G-rich strand telomeric DNA binding"
##      "1-phosphatidylinositol-3-kinase regulator activity"
##      "endopeptidase inhibitor activity"
##      "mediator complex binding"
##      "receptor ligand activity"
##      "chromo shadow domain binding"
##      "alkylglycerophosphoethanolamine phosphodiesterase activity"
##      "RNA helicase activity"
##      "7SK snRNA binding"
##      "dynein light intermediate chain binding"
##      "RNA polymerase I CORE element sequence-specific DNA binding"
##      "histone binding"
##      "translation regulator activity"
##      "Notch binding"
##      "opioid receptor activity"
##      "ubiquitin-protein transferase activator activity"
##      "primary miRNA binding"
##      "growth factor receptor binding"
##      "G-protein beta-subunit binding"
##      "gamma-catenin binding"
##      "RNA stem-loop binding"
##      "bHLH transcription factor binding"
##      "SUMO binding"
##      "type 2A serotonin receptor binding"
##      "histone-lysine N-methyltransferase activity"
##      "sulfotransferase activity"
##      "dopamine binding"
##      "phosphatidylserine binding"
##      "microtubule binding"
##      "alpha-1B adrenergic receptor binding"
##      "chloride channel inhibitor activity"

```

```

##      "neuropilin binding"
##      "protein deacetylase activity"
##      "U1 snRNA binding"
##      "WW domain binding"
##      "N6-methyladenosine-containing RNA binding"
##      "pre-mRNA intronic binding"
##      "snRNA binding"
##      "somatostatin receptor activity"
##      "transforming growth factor beta receptor, pathway-specific cytoplasmic mediator a
##      "protein kinase inhibitor activity"
##      "transforming growth factor beta binding"
##      "microfilament motor activity"
##      "Rho GDP-dissociation inhibitor binding"
##      "protein kinase activator activity"
##      "acetyltransferase activity"
##      "actin filament binding"
##      "N-formyl peptide receptor activity"
##      "deacetylase activity"
##      "mRNA 3'-UTR AU-rich region binding"
##      "fibroblast growth factor receptor binding"
##      "vasopressin receptor activity"
##      "DEAD/H-box RNA helicase binding"
##      "CXCR3 chemokine receptor binding"
##      "protein binding, bridging"
##      "5'-3' exonuclease activity"
##      "Krueppel-associated box domain binding"
##      "transmembrane receptor protein tyrosine kinase adaptor activity"
##      "thrombin-activated receptor activity"
##      "insulin-like growth factor receptor binding"
##      "peptide N-acetyltransferase activity"
##      "protein phosphorylated amino acid binding"
##      "T cell receptor binding"
##      "core promoter sequence-specific DNA binding"
##      "I-SMAD binding"
##      "sphingosine-1-phosphate receptor activity"
##      "transcription coactivator binding"
##      "structural constituent of nuclear pore"
##      "chemokine receptor binding"
##      "miRNA binding"
##      "ATP-dependent DNA helicase activity"
##      "thyroid hormone receptor binding"
##      "protein serine/threonine kinase activity"
##      "proline-rich region binding"
##      "RNA polymerase binding"
##      "histone deacetylase binding"
##      "sequence-specific mRNA binding"
##      "neurotrophin TRKA receptor binding"
##      "frizzled binding"
##      "AU-rich element binding"
##      "importin-alpha family protein binding"
##      "structural constituent of muscle"
##      "immunoglobulin receptor binding"
##      "C-X-C chemokine receptor activity"
##      "transmembrane signaling receptor activity"

```

```

##      "receptor tyrosine kinase binding"
##      "sequence-specific double-stranded DNA binding"
##      "ATP-dependent microtubule motor activity, plus-end-directed"
##      "ubiquitin protein ligase activity"
##      "nuclear receptor binding"
##      "protein-containing complex scaffold activity"
##      "ATP-dependent 3'-5' RNA helicase activity"
##      "G protein-coupled acetylcholine receptor activity"
##      "ubiquitin ligase inhibitor activity"
##      "clathrin adaptor activity"
##      "phosphatidylinositol 3-kinase regulatory subunit binding"
##      "SMAD binding"
##      "protein kinase activity"
##      "cyclin-dependent protein serine/threonine kinase activity"
##      "leucine zipper domain binding"
##      "nucleosomal DNA binding"
##      "SNAP receptor activity"
##      "spectrin binding"
##      "transmembrane-ephrin receptor activity"
##      "pre-mRNA binding"
##      "mRNA 3'-UTR binding"
##      "telomeric DNA binding"
##      "glutamate receptor activity"
##      "epidermal growth factor receptor binding"
##      "actin-dependent ATPase activity"
##      "G protein-coupled purinergic nucleotide receptor activity"
##      "single-stranded DNA binding"
##      "peptide hormone receptor binding"
##      "growth factor activity"
##      "galanin receptor activity"
##      "U1 snRNP binding"
##      "antigen binding"
##      "RNA polymerase II distal enhancer sequence-specific DNA binding"
##      "motor activity"
##      "fibroblast growth factor binding"
##      "chemoattractant activity"
##      "mRNA 5'-UTR binding"
##      "methylated histone binding"
##      "gamma-tubulin binding"
##      "phosphatidylinositol 3-kinase binding"
##      "serotonin binding"
##      "phosphatidylinositol phospholipase C activity"
##      "microtubule plus-end binding"
##      "cyclin binding"
##      "lysophosphatidic acid receptor activity"
##      "protein phosphatase 2A binding"
##      "protein self-association"
##      "protein C-terminus binding"
##      "insulin receptor substrate binding"
##      "histone deacetylase activity"
##      "chromatin DNA binding"
##      "chemokine receptor activity"
##      "taste receptor activity"
##      "single-stranded RNA binding"

```

```

##      "neuropeptide receptor activity"
##      "RNA polymerase II activity"
##      "insulin receptor binding"
##      "beta-catenin binding"
##      "nuclear hormone receptor binding"
##      "SH2 domain binding"
##      "protein phosphatase binding"
##      "signaling receptor binding"
##      "CCR chemokine receptor binding"
##      "G-protein alpha-subunit binding"
##      "1-phosphatidylinositol-3-kinase activity"
##      "histone acetyltransferase binding"
##      "neuropeptide hormone activity"
##      "double-stranded DNA binding"
##      "transcription coregulator activity"
##      "G-protein beta/gamma-subunit complex binding"
##      "type 1 angiotensin receptor binding"
##      "hormone activity"
##      "proximal promoter DNA-binding transcription activator activity, RNA polymerase II."
##      "RNA binding"
##      "vitamin D receptor binding"
##      "mRNA binding"
##      "nuclear receptor transcription coactivator activity"
##      "microtubule motor activity"
##      "G protein-coupled peptide receptor activity"
##      "phosphotyrosine residue binding"
##      "non-membrane spanning protein tyrosine kinase activity"
##      "NF-kappaB binding"
##      "protein tyrosine kinase activity"
##      "damaged DNA binding"
##      "calcium-dependent protein binding"
##      "proximal promoter sequence-specific DNA binding"
##      "transcription regulatory region DNA binding"
##      "RNA polymerase II regulatory region sequence-specific DNA binding"
##      "C-C chemokine binding"
##      "heparin binding"
##      "androgen receptor binding"
##      "chemokine binding"
##      "C-C chemokine receptor activity"
##      "phosphatidylinositol-4,5-bisphosphate 3-kinase activity"
##      "Ras guanyl-nucleotide exchange factor activity"
##      "proximal promoter DNA-binding transcription repressor activity, RNA polymerase II."
##      "signaling receptor activity"
##      "RNA polymerase II repressing transcription factor binding"
##      "ephrin receptor binding"
##      "zinc ion binding"
##      "peptide hormone binding"
##      "transcription regulatory region sequence-specific DNA binding"
##      "RNA polymerase II transcription factor binding"
##      "SH3/SH2 adaptor activity"
##      "neuropeptide binding"
##      "G protein-coupled serotonin receptor activity"
##      "DNA-binding transcription activator activity, RNA polymerase II-specific"
##      "SH3 domain binding"

```



```

## "neurotransmitter receptor activity"
## "transcription coactivator activity"
## "metal ion binding"
## "protein kinase binding"
## "bitter taste receptor activity"
## "transcription corepressor activity"
## "promoter-specific chromatin binding"
## "sequence-specific DNA binding"
## "chemokine activity"
## "ubiquitin-protein transferase activity"
## "transcription factor binding"
## "RNA polymerase II proximal promoter sequence-specific DNA binding"
## "protein binding"
## "chromatin binding"
## "DNA-binding transcription factor activity"
## "DNA binding"
## "G protein-coupled receptor activity"
## "DNA-binding transcription factor activity, RNA polymerase II-specific"
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## "65.388" "286" "19.86" "4.07"
## "64.787" "436" "31.3" "6.247"
## "37.349" "67" "3.81" "1.692"
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## "35.985" "121" "10.63" "3.067"
## "30.57" "172" "24.74" "4.817"
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## "17.262" "296" "125.26" "9.891"
## "16.948" "90" "15.5" "4.396"

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##	"10.518"	"117"	"45.36"	"6.811"
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##	"8.469"	"58"	"20.38"	"4.442"
##	"8.395"	"40"	"11.39"	"3.408"
##	"8.337"	"35"	"10.85"	"2.897"
##	"8.315"	"43"	"12"	"3.728"
##	"8.255"	"633"	"429.76"	"24.619"
##	"8.194"	"48"	"16.85"	"3.802"
##	"8.141"	"62"	"23.84"	"4.688"
##	"8.141"	"62"	"23.84"	"4.688"
##	"8.061"	"96"	"44.98"	"6.329"
##	"8.045"	"177"	"94.96"	"10.198"
##	"8.043"	"275"	"176.05"	"12.303"
##	"7.994"	"68"	"25.92"	"5.264"
##	"7.964"	"15"	"2.86"	"1.524"
##	"7.951"	"508"	"345.18"	"20.478"
##	"7.933"	"219"	"132.11"	"10.953"
##	"7.908"	"41"	"13.33"	"3.499"
##	"7.884"	"135"	"67.71"	"8.535"
##	"7.848"	"27"	"7.14"	"2.531"
##	"7.727"	"92"	"44.61"	"6.133"
##	"7.682"	"50"	"18.78"	"4.064"
##	"7.648"	"11"	"1.4"	"1.255"
##	"7.568"	"41"	"14.39"	"3.516"
##	"7.552"	"201"	"124.19"	"10.171"
##	"7.505"	"30"	"8.36"	"2.883"
##	"7.476"	"40"	"14.05"	"3.471"
##	"7.426"	"491"	"334.43"	"21.084"
##	"7.374"	"49"	"18.71"	"4.108"
##	"7.355"	"54"	"20.12"	"4.606"
##	"7.346"	"48"	"16.95"	"4.227"
##	"7.247"	"75"	"34.33"	"5.612"
##	"7.228"	"106"	"57.87"	"6.659"
##	"7.201"	"9"	"1.12"	"1.094"
##	"7.192"	"49"	"19.04"	"4.166"
##	"7.181"	"64"	"29.85"	"4.755"
##	"7.181"	"64"	"29.85"	"4.755"
##	"7.181"	"64"	"29.85"	"4.755"
##	"7.143"	"24"	"6.04"	"2.514"
##	"7.136"	"122"	"61.53"	"8.474"
##	"7.125"	"64"	"28.73"	"4.95"
##	"7.12"	"8"	"0.88"	"0.795"
##	"7.031"	"698"	"542.85"	"22.067"
##	"7.013"	"26"	"7.99"	"2.568"

##	"6.975"	"56"	"20.77"	"5.051"
##	"6.972"	"224"	"141.49"	"11.834"
##	"6.962"	"255"	"163.29"	"13.174"
##	"6.853"	"241"	"154.58"	"12.611"
##	"6.846"	"44"	"15.58"	"4.152"
##	"6.827"	"12"	"2.47"	"1.396"
##	"6.794"	"28"	"9.42"	"2.735"
##	"6.75"	"29"	"7.94"	"3.12"
##	"6.726"	"27"	"8.89"	"2.693"
##	"6.726"	"27"	"8.89"	"2.693"
##	"6.664"	"21"	"5.94"	"2.26"
##	"6.601"	"8"	"0.98"	"1.063"
##	"6.601"	"8"	"0.98"	"1.063"
##	"6.601"	"8"	"0.98"	"1.063"
##	"6.596"	"24"	"7.69"	"2.473"
##	"6.562"	"34"	"11.47"	"3.433"
##	"6.557"	"66"	"31.79"	"5.217"
##	"6.554"	"26"	"8.26"	"2.707"
##	"6.528"	"36"	"12.4"	"3.615"
##	"6.51"	"44"	"18.14"	"3.972"
##	"6.489"	"28"	"9.18"	"2.9"
##	"6.458"	"29"	"9.77"	"2.978"
##	"6.453"	"110"	"56.09"	"8.355"
##	"6.4"	"49"	"21.16"	"4.35"
##	"6.387"	"30"	"10.96"	"2.981"
##	"6.378"	"29"	"9.84"	"3.004"
##	"6.369"	"97"	"51.28"	"7.179"
##	"6.355"	"97"	"50.15"	"7.372"
##	"6.349"	"30"	"9.87"	"3.171"
##	"6.341"	"61"	"27.88"	"5.223"
##	"6.323"	"19"	"5.4"	"2.151"
##	"6.31"	"7"	"0.69"	"0.873"
##	"6.29"	"449"	"342.93"	"16.863"
##	"6.266"	"11"	"2.03"	"1.432"
##	"6.256"	"57"	"28.24"	"4.597"
##	"6.238"	"14"	"3.64"	"1.661"
##	"6.194"	"65"	"34.39"	"4.942"
##	"6.19"	"81"	"40.62"	"6.524"
##	"6.179"	"32"	"12.85"	"3.099"
##	"6.163"	"54"	"25.4"	"4.641"
##	"6.131"	"13"	"2.79"	"1.665"
##	"6.092"	"12"	"2.59"	"1.545"
##	"6.074"	"19"	"5.5"	"2.222"
##	"6.072"	"55"	"25.15"	"4.916"
##	"6.048"	"57"	"28.55"	"4.704"
##	"6.048"	"14"	"3.25"	"1.777"
##	"6.043"	"38"	"15.74"	"3.683"
##	"6.043"	"38"	"15.74"	"3.683"
##	"6.033"	"37"	"15.52"	"3.56"
##	"6.027"	"8"	"1.18"	"1.132"
##	"5.995"	"27"	"10.72"	"2.716"
##	"5.98"	"6"	"0.02"	"0.141"
##	"5.98"	"6"	"0.02"	"0.141"
##	"5.98"	"6"	"0.02"	"0.141"

##	"5.95"	"6"	"0.05"	"0.219"
##	"5.933"	"42"	"17.95"	"4.054"
##	"5.921"	"27"	"11.13"	"2.68"
##	"5.902"	"33"	"14.07"	"3.207"
##	"5.878"	"229"	"159.34"	"11.852"
##	"5.875"	"7"	"0.98"	"1.025"
##	"5.857"	"18"	"5.38"	"2.155"
##	"5.843"	"27"	"8.96"	"3.088"
##	"5.84"	"30"	"10.8"	"3.288"
##	"5.84"	"6"	"0.16"	"0.368"
##	"5.834"	"14"	"3.32"	"1.831"
##	"5.822"	"330"	"240.9"	"15.303"
##	"5.801"	"23"	"7.52"	"2.668"
##	"5.801"	"27"	"10.19"	"2.898"
##	"5.774"	"33"	"14.46"	"3.211"
##	"5.769"	"29"	"10.75"	"3.163"
##	"5.763"	"12"	"3.05"	"1.553"
##	"5.753"	"31"	"12.47"	"3.221"
##	"5.749"	"152"	"99.27"	"9.172"
##	"5.736"	"9"	"1.88"	"1.241"
##	"5.689"	"12"	"3.08"	"1.568"
##	"5.689"	"12"	"3.08"	"1.568"
##	"5.688"	"12"	"2.52"	"1.667"
##	"5.688"	"12"	"2.52"	"1.667"
##	"5.687"	"113"	"64.84"	"8.468"
##	"5.654"	"36"	"15.43"	"3.638"
##	"5.653"	"129"	"83.2"	"8.102"
##	"5.624"	"22"	"6.51"	"2.754"
##	"5.573"	"29"	"11.87"	"3.074"
##	"5.57"	"6"	"0.43"	"0.624"
##	"5.57"	"6"	"0.43"	"0.624"
##	"5.57"	"6"	"0.43"	"0.624"
##	"5.557"	"29"	"11.44"	"3.16"
##	"5.557"	"29"	"11.44"	"3.16"
##	"5.553"	"27"	"10.39"	"2.991"
##	"5.548"	"16"	"4.6"	"2.055"
##	"5.54"	"22"	"7.19"	"2.673"
##	"5.52"	"35"	"14.12"	"3.783"
##	"5.511"	"82"	"44.34"	"6.833"
##	"5.494"	"357"	"279.54"	"14.1"
##	"5.474"	"29"	"11.03"	"3.283"
##	"5.474"	"29"	"11.94"	"3.117"
##	"5.474"	"29"	"11.94"	"3.117"
##	"5.466"	"23"	"7.71"	"2.797"
##	"5.433"	"25"	"8.6"	"3.018"
##	"5.39"	"18"	"5.47"	"2.324"
##	"5.386"	"37"	"17.03"	"3.708"
##	"5.339"	"28"	"11.47"	"3.096"
##	"5.336"	"10"	"2.1"	"1.481"
##	"5.331"	"14"	"4.13"	"1.851"
##	"5.33"	"6"	"0.67"	"0.853"
##	"5.325"	"26"	"9.1"	"3.173"
##	"5.277"	"12"	"3"	"1.706"
##	"5.258"	"23"	"8.54"	"2.75"

##	"5.201"	"24"	"9.26"	"2.834"
##	"5.174"	"8"	"1.79"	"1.2"
##	"5.174"	"8"	"1.79"	"1.2"
##	"5.126"	"30"	"13.03"	"3.31"
##	"5.12"	"149"	"98.93"	"9.779"
##	"5.096"	"11"	"2.94"	"1.582"
##	"5.066"	"28"	"11.75"	"3.208"
##	"5.047"	"27"	"10.45"	"3.279"
##	"5.045"	"24"	"9.49"	"2.876"
##	"4.987"	"183"	"127.62"	"11.104"
##	"4.974"	"17"	"5.7"	"2.272"
##	"4.968"	"36"	"14.74"	"4.28"
##	"4.953"	"12"	"2.96"	"1.825"
##	"4.942"	"144"	"97.91"	"9.326"
##	"4.927"	"64"	"35.39"	"5.806"
##	"4.92"	"24"	"8.37"	"3.177"
##	"4.92"	"20"	"6.33"	"2.778"
##	"4.91"	"19"	"6.74"	"2.497"
##	"4.904"	"31"	"13.85"	"3.497"
##	"4.902"	"31"	"13.44"	"3.583"
##	"4.901"	"9"	"2.26"	"1.375"
##	"4.86"	"16"	"5.22"	"2.218"
##	"4.842"	"6"	"1.12"	"1.008"
##	"4.819"	"20"	"7.67"	"2.559"
##	"4.776"	"6"	"1.11"	"1.024"
##	"4.776"	"6"	"1.11"	"1.024"
##	"4.767"	"121"	"78.8"	"8.852"
##	"4.756"	"275"	"214.3"	"12.764"
##	"4.722"	"34"	"16.89"	"3.623"
##	"4.715"	"21"	"8.11"	"2.734"
##	"4.715"	"21"	"8.11"	"2.734"
##	"4.715"	"21"	"8.11"	"2.734"
##	"4.699"	"31"	"13.85"	"3.65"
##	"4.688"	"66"	"41.46"	"5.235"
##	"4.684"	"64"	"35.42"	"6.102"
##	"4.665"	"8"	"1.56"	"1.38"
##	"4.653"	"31"	"13.79"	"3.699"
##	"4.629"	"68"	"40.48"	"5.945"
##	"4.625"	"276"	"207.26"	"14.862"
##	"4.573"	"143"	"97.83"	"9.878"
##	"4.571"	"23"	"8.44"	"3.186"
##	"4.567"	"1800"	"1619.96"	"39.419"
##	"4.549"	"34"	"16.74"	"3.794"
##	"4.547"	"17"	"6.51"	"2.307"
##	"4.543"	"19"	"8.26"	"2.364"
##	"4.529"	"16"	"5.72"	"2.27"
##	"4.518"	"32"	"15.56"	"3.639"
##	"4.515"	"8"	"2.13"	"1.3"
##	"4.512"	"2288"	"2011.45"	"61.29"
##	"4.507"	"18"	"6.83"	"2.478"
##	"4.507"	"18"	"6.83"	"2.478"
##	"4.507"	"18"	"6.83"	"2.478"
##	"4.507"	"18"	"6.83"	"2.478"
##	"4.504"	"21"	"9.22"	"2.615"

##	"4.492"	"22"	"8.31"	"3.047"
##	"4.463"	"82"	"51.84"	"6.758"
##	"4.46"	"28"	"13.54"	"3.242"
##	"4.447"	"54"	"32.08"	"4.929"
##	"4.443"	"34"	"16.23"	"4"
##	"4.415"	"262"	"197.42"	"14.627"
##	"4.415"	"39"	"20.85"	"4.111"
##	"4.4"	"250"	"192.27"	"13.121"
##	"4.355"	"18"	"7.78"	"2.347"
##	"4.355"	"38"	"20.16"	"4.097"
##	"4.34"	"62"	"36.5"	"5.875"
##	"4.321"	"6"	"1.15"	"1.123"
##	"4.279"	"104"	"68.82"	"8.221"
##	"4.279"	"13"	"4.01"	"2.101"
##	"4.278"	"17"	"6.14"	"2.539"
##	"4.275"	"36"	"19.1"	"3.953"
##	"4.273"	"36"	"19.09"	"3.957"
##	"4.268"	"28"	"13.74"	"3.341"
##	"4.267"	"51"	"29.45"	"5.05"
##	"4.26"	"5"	"0.74"	"0.86"
##	"4.21"	"5"	"0.79"	"0.935"
##	"4.21"	"5"	"0.79"	"0.935"
##	"4.193"	"31"	"16.47"	"3.465"
##	"4.159"	"16"	"5.93"	"2.422"
##	"4.153"	"14"	"5.31"	"2.092"
##	"4.153"	"14"	"5.31"	"2.092"
##	"4.132"	"32"	"17.41"	"3.531"
##	"4.13"	"5"	"0.87"	"0.872"
##	"4.13"	"5"	"0.87"	"0.872"
##	"4.13"	"5"	"0.87"	"0.872"
##	"4.13"	"5"	"0.87"	"0.872"
##	"4.13"	"5"	"0.87"	"0.872"
##	"4.11"	"17"	"6.83"	"2.474"
##	"4.076"	"12"	"3.9"	"1.987"
##	"4.073"	"36"	"19.88"	"3.958"
##	"4.053"	"9"	"2.78"	"1.535"
##	"4.049"	"21"	"8.44"	"3.102"
##	"4.043"	"12"	"3.92"	"1.998"
##	"4.04"	"178"	"134.76"	"10.702"
##	"4.031"	"19"	"8.74"	"2.545"
##	"4.01"	"5"	"0.99"	"0.882"
##	"3.998"	"19"	"7.41"	"2.899"
##	"3.991"	"15"	"6.15"	"2.217"
##	"3.974"	"65"	"42.75"	"5.598"
##	"3.961"	"430"	"355.52"	"18.805"
##	"3.947"	"34"	"17.95"	"4.066"
##	"3.946"	"41"	"22.7"	"4.637"
##	"3.935"	"25"	"11.95"	"3.316"
##	"3.909"	"7"	"2.09"	"1.256"
##	"3.89"	"35"	"18.62"	"4.211"
##	"3.89"	"35"	"18.62"	"4.211"
##	"3.89"	"35"	"18.62"	"4.211"
##	"3.89"	"35"	"18.62"	"4.211"
##	"3.873"	"23"	"10.68"	"3.181"

##	"3.866"	"68"	"44.36"	"6.114"
##	"3.864"	"21"	"10.14"	"2.811"
##	"3.862"	"6"	"1.46"	"1.176"
##	"3.836"	"8"	"2.28"	"1.491"
##	"3.834"	"35"	"18.56"	"4.288"
##	"3.823"	"60"	"39.82"	"5.279"
##	"3.814"	"20"	"9.73"	"2.693"
##	"3.804"	"8"	"2.12"	"1.546"
##	"3.795"	"66"	"41.37"	"6.49"
##	"3.787"	"34"	"18.65"	"4.054"
##	"3.785"	"13"	"5.07"	"2.095"
##	"3.785"	"13"	"5.07"	"2.095"
##	"3.785"	"13"	"5.07"	"2.095"
##	"3.785"	"13"	"5.07"	"2.095"
##	"3.781"	"8"	"2.1"	"1.56"
##	"3.776"	"41"	"24.12"	"4.471"
##	"3.754"	"26"	"12.1"	"3.702"
##	"3.754"	"8"	"2.05"	"1.585"
##	"3.737"	"39"	"21.51"	"4.681"
##	"3.735"	"5"	"1.05"	"1.058"
##	"3.72"	"4"	"0.28"	"0.514"
##	"3.713"	"5"	"1.18"	"1.029"
##	"3.713"	"5"	"1.18"	"1.029"
##	"3.707"	"24"	"11.92"	"3.259"
##	"3.698"	"69"	"45"	"6.49"
##	"3.69"	"4"	"0.31"	"0.545"
##	"3.69"	"4"	"0.31"	"0.545"
##	"3.687"	"50"	"32.64"	"4.709"
##	"3.677"	"16"	"7.25"	"2.38"
##	"3.652"	"13"	"4.38"	"2.36"
##	"3.648"	"49"	"29.62"	"5.312"
##	"3.63"	"15"	"6.6"	"2.314"
##	"3.605"	"24"	"12.17"	"3.282"
##	"3.599"	"11"	"3.91"	"1.97"
##	"3.586"	"81"	"56.49"	"6.835"
##	"3.585"	"65"	"44.29"	"5.778"
##	"3.584"	"14"	"6.11"	"2.201"
##	"3.583"	"39"	"23.81"	"4.24"
##	"3.571"	"62"	"39.82"	"6.211"
##	"3.567"	"13"	"4.71"	"2.324"
##	"3.55"	"4"	"0.45"	"0.672"
##	"3.535"	"67"	"45.82"	"5.992"
##	"3.513"	"15"	"6.85"	"2.32"
##	"3.5"	"19"	"8.97"	"2.866"
##	"3.487"	"13"	"5.04"	"2.283"
##	"3.481"	"9"	"3.35"	"1.623"
##	"3.473"	"34"	"19.61"	"4.144"
##	"3.457"	"24"	"12.08"	"3.449"
##	"3.453"	"85"	"60.02"	"7.233"
##	"3.45"	"4"	"0.55"	"0.702"
##	"3.45"	"4"	"0.55"	"0.702"
##	"3.447"	"113"	"84.52"	"8.263"
##	"3.43"	"4"	"0.57"	"0.756"
##	"3.428"	"104"	"73.77"	"8.819"

##	"3.421"	"35"	"19"	"4.677"
##	"3.421"	"35"	"19"	"4.677"
##	"3.42"	"4"	"0.58"	"0.669"
##	"3.412"	"36"	"21.05"	"4.382"
##	"3.411"	"22"	"11.13"	"3.187"
##	"3.407"	"40"	"23.83"	"4.746"
##	"3.404"	"9"	"2.81"	"1.819"
##	"3.397"	"5"	"1.47"	"1.039"
##	"3.392"	"130"	"96.64"	"9.835"
##	"3.364"	"34"	"19.83"	"4.212"
##	"3.359"	"7"	"2.11"	"1.456"
##	"3.359"	"35"	"19.16"	"4.716"
##	"3.356"	"5"	"1.24"	"1.12"
##	"3.355"	"10"	"3.85"	"1.833"
##	"3.355"	"10"	"3.85"	"1.833"
##	"3.352"	"8"	"3.25"	"1.417"
##	"3.352"	"16"	"7.47"	"2.544"
##	"3.326"	"30"	"16.71"	"3.996"
##	"3.325"	"6"	"1.94"	"1.221"
##	"3.309"	"58"	"38.66"	"5.845"
##	"3.281"	"65"	"43.85"	"6.445"
##	"3.256"	"4"	"0.74"	"1.001"
##	"3.254"	"16"	"7.88"	"2.496"
##	"3.253"	"39"	"24.64"	"4.414"
##	"3.249"	"19"	"9.52"	"2.918"
##	"3.229"	"37"	"22.23"	"4.575"
##	"3.21"	"65"	"47.23"	"5.536"
##	"3.208"	"71"	"51.31"	"6.138"
##	"3.204"	"87"	"64.39"	"7.057"
##	"3.179"	"204"	"165.39"	"12.144"
##	"3.17"	"4"	"0.83"	"0.853"
##	"3.16"	"8"	"2.8"	"1.645"
##	"3.16"	"8"	"2.8"	"1.645"
##	"3.16"	"8"	"2.8"	"1.645"
##	"3.156"	"11"	"4.63"	"2.018"
##	"3.124"	"11"	"4.72"	"2.01"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.112"	"10"	"3.85"	"1.977"
##	"3.11"	"65"	"46.03"	"6.099"
##	"3.104"	"19"	"9.35"	"3.109"
##	"3.068"	"82"	"60.32"	"7.067"
##	"3.062"	"229"	"188.97"	"13.074"
##	"3.031"	"18"	"9.33"	"2.861"
##	"3.023"	"10"	"3.45"	"2.167"
##	"3.012"	"8"	"2.72"	"1.753"
##	"3.006"	"43"	"26.71"	"5.418"
##	"3.002"	"5"	"1.55"	"1.149"
##	"3.002"	"93"	"68.19"	"8.264"
##	"3"	"11"	"4.81"	"2.063"
##	"2.996"	"85"	"62.26"	"7.59"
##	"2.994"	"8"	"2.91"	"1.7"
##	"2.992"	"13"	"5.88"	"2.38"

##	"2.972"	"38"	"24.58"	"4.515"
##	"2.96"	"4"	"1.04"	"0.942"
##	"2.959"	"32"	"19.58"	"4.198"
##	"2.945"	"19"	"10.88"	"2.757"
##	"2.94"	"4"	"1.06"	"0.962"
##	"2.922"	"20"	"10.7"	"3.183"
##	"2.912"	"24"	"13.16"	"3.722"
##	"2.912"	"236"	"196.05"	"13.72"
##	"2.907"	"67"	"48.69"	"6.298"
##	"2.884"	"82"	"62.02"	"6.928"
##	"2.881"	"5"	"1.49"	"1.219"
##	"2.876"	"26"	"15.56"	"3.63"
##	"2.863"	"10"	"3.67"	"2.211"
##	"2.861"	"101"	"75.2"	"9.016"
##	"2.858"	"194"	"155.62"	"13.431"
##	"2.846"	"20"	"11.39"	"3.025"
##	"2.835"	"11"	"4.99"	"2.12"
##	"2.835"	"11"	"4.99"	"2.12"
##	"2.828"	"22"	"12.99"	"3.186"
##	"2.826"	"9"	"3.65"	"1.893"
##	"2.804"	"60"	"43.58"	"5.855"
##	"2.804"	"450"	"403.24"	"16.674"
##	"2.802"	"12"	"5.55"	"2.302"
##	"2.8"	"4"	"1.2"	"0.91"
##	"2.794"	"13"	"6.02"	"2.498"
##	"2.781"	"5"	"1.6"	"1.223"
##	"2.774"	"4"	"1.01"	"1.078"
##	"2.766"	"49"	"33.74"	"5.517"
##	"2.764"	"5"	"1.4"	"1.303"
##	"2.757"	"54"	"39.02"	"5.433"
##	"2.755"	"17"	"8.77"	"2.988"
##	"2.752"	"11"	"5.1"	"2.144"
##	"2.752"	"11"	"5.1"	"2.144"
##	"2.73"	"24"	"14.4"	"3.516"
##	"2.72"	"4"	"1.28"	"0.911"
##	"2.72"	"4"	"1.28"	"0.911"
##	"2.72"	"4"	"1.28"	"0.911"
##	"2.703"	"31"	"19.98"	"4.077"
##	"2.7"	"4"	"1.3"	"0.937"
##	"2.68"	"8"	"3.65"	"1.623"
##	"2.678"	"16"	"8.59"	"2.767"
##	"2.664"	"49"	"32.43"	"6.22"
##	"2.658"	"6"	"2.09"	"1.471"
##	"2.656"	"26"	"15.81"	"3.837"
##	"2.652"	"10"	"4.42"	"2.104"
##	"2.64"	"3"	"0.36"	"0.612"
##	"2.636"	"10"	"4.17"	"2.211"
##	"2.636"	"24"	"14.37"	"3.653"
##	"2.633"	"11"	"5.56"	"2.066"
##	"2.633"	"11"	"5.56"	"2.066"
##	"2.629"	"10"	"4.2"	"2.207"
##	"2.626"	"6"	"2.22"	"1.44"
##	"2.62"	"3"	"0.38"	"0.528"
##	"2.618"	"114"	"88.56"	"9.717"

##	"2.61"	"3"	"0.39"	"0.618"
##	"2.604"	"13"	"6.22"	"2.604"
##	"2.585"	"11"	"5.16"	"2.26"
##	"2.584"	"13"	"6.4"	"2.554"
##	"2.58"	"3"	"0.42"	"0.638"
##	"2.567"	"924"	"848.94"	"29.24"
##	"2.562"	"37"	"25.76"	"4.388"
##	"2.548"	"27"	"17.34"	"3.791"
##	"2.546"	"18"	"9.86"	"3.197"
##	"2.544"	"7"	"3.05"	"1.553"
##	"2.544"	"7"	"3.05"	"1.553"
##	"2.539"	"169"	"141.11"	"10.986"
##	"2.532"	"23"	"14.6"	"3.318"
##	"2.517"	"99"	"78.02"	"8.336"
##	"2.514"	"15"	"7.7"	"2.904"
##	"2.509"	"208"	"176.17"	"12.687"
##	"2.496"	"84"	"65.22"	"7.523"
##	"2.496"	"16"	"8.72"	"2.917"
##	"2.495"	"8"	"3.71"	"1.719"
##	"2.494"	"11"	"4.97"	"2.418"
##	"2.494"	"44"	"30.09"	"5.578"
##	"2.492"	"18"	"9.95"	"3.23"
##	"2.49"	"926"	"850.6"	"30.277"
##	"2.489"	"97"	"76.41"	"8.272"
##	"2.482"	"4"	"1.2"	"1.128"
##	"2.48"	"3"	"0.52"	"0.703"
##	"2.475"	"16"	"8.39"	"3.074"
##	"2.474"	"215"	"181.55"	"13.519"
##	"2.468"	"40"	"26.81"	"5.344"
##	"2.451"	"17"	"10.47"	"2.665"
##	"2.448"	"15"	"8.22"	"2.769"
##	"2.445"	"5"	"1.79"	"1.313"
##	"2.435"	"12"	"6.16"	"2.398"
##	"2.435"	"12"	"6.16"	"2.398"
##	"2.432"	"72"	"54.61"	"7.149"
##	"2.424"	"65"	"48.87"	"6.656"
##	"2.387"	"11"	"5.75"	"2.199"
##	"2.387"	"5"	"1.84"	"1.324"
##	"2.381"	"55"	"39.71"	"6.422"
##	"2.38"	"3"	"0.62"	"0.722"
##	"2.32"	"3"	"0.68"	"0.863"
##	"2.32"	"3"	"0.68"	"0.863"
##	"2.318"	"127"	"106.03"	"9.047"
##	"2.308"	"6"	"2.59"	"1.478"
##	"2.308"	"6"	"2.59"	"1.478"
##	"2.308"	"6"	"2.59"	"1.478"
##	"2.308"	"6"	"2.59"	"1.478"
##	"2.307"	"10"	"4.56"	"2.358"
##	"2.264"	"39"	"27.72"	"4.983"
##	"2.262"	"6"	"2.43"	"1.578"
##	"2.26"	"6"	"2.42"	"1.584"
##	"2.259"	"4"	"1.41"	"1.147"
##	"2.255"	"15"	"8.75"	"2.772"
##	"2.221"	"6"	"2.6"	"1.531"

##	"2.219"	"92"	"73.13"	"8.503"
##	"2.211"	"12"	"6.43"	"2.52"
##	"2.205"	"60"	"44.82"	"6.885"
##	"2.197"	"8"	"3.43"	"2.08"
##	"2.192"	"464"	"402.61"	"28.006"
##	"2.175"	"36"	"24.76"	"5.168"
##	"2.155"	"8"	"4.19"	"1.768"
##	"2.151"	"6"	"2.58"	"1.59"
##	"2.151"	"6"	"2.42"	"1.665"
##	"2.146"	"11"	"5.96"	"2.348"
##	"2.136"	"14"	"7.7"	"2.949"
##	"2.136"	"20"	"12.94"	"3.305"
##	"2.136"	"20"	"12.94"	"3.305"
##	"2.12"	"81"	"65.19"	"7.456"
##	"2.114"	"31"	"21.64"	"4.428"
##	"2.101"	"6"	"2.45"	"1.69"
##	"2.1"	"16"	"9.42"	"3.134"
##	"2.092"	"15"	"8.58"	"3.069"
##	"2.085"	"36"	"25.28"	"5.141"
##	"2.07"	"3"	"0.93"	"0.998"
##	"2.056"	"5"	"2.1"	"1.411"
##	"2.056"	"41"	"29.62"	"5.536"
##	"2.044"	"10"	"5.38"	"2.26"
##	"2.044"	"10"	"5.38"	"2.26"
##	"2.041"	"7"	"3.4"	"1.764"
##	"2.03"	"3"	"0.97"	"0.87"
##	"2.029"	"52"	"40.1"	"5.866"
##	"2.02"	"3"	"0.98"	"0.91"
##	"2.016"	"7"	"3.33"	"1.821"
##	"2.016"	"7"	"3.33"	"1.821"
##	"2.016"	"7"	"3.33"	"1.821"
##	"2.016"	"7"	"3.33"	"1.821"
##	"2.016"	"7"	"3.33"	"1.821"
##	"2.005"	"9"	"5.07"	"1.96"
##	"2.004"	"5"	"1.96"	"1.517"
##	"2"	"63"	"48.32"	"7.341"
##	"1.995"	"52"	"40.28"	"5.876"
##	"1.992"	"52"	"40.19"	"5.93"
##	"1.99"	"2"	"0.01"	"0.1"
##	"1.986"	"74"	"58.48"	"7.814"
##	"1.983"	"370"	"330.38"	"19.983"
##	"1.981"	"15"	"9.85"	"2.599"
##	"1.98"	"440"	"403"	"18.69"
##	"1.976"	"52"	"40.44"	"5.849"
##	"1.971"	"6"	"3.17"	"1.436"
##	"1.97"	"4"	"1.63"	"1.203"
##	"1.963"	"49"	"37.51"	"5.853"
##	"1.956"	"6"	"2.83"	"1.621"
##	"1.952"	"16"	"10.24"	"2.951"
##	"1.943"	"15"	"9.42"	"2.872"
##	"1.943"	"20"	"13.39"	"3.402"
##	"1.94"	"2"	"0.06"	"0.239"
##	"1.938"	"3"	"0.95"	"1.058"
##	"1.934"	"6"	"2.54"	"1.789"

##	"1.93"	"2"	"0.07"	"0.256"
##	"1.916"	"6"	"2.82"	"1.66"
##	"1.91"	"2"	"0.09"	"0.321"
##	"1.91"	"2"	"0.09"	"0.288"
##	"1.907"	"4"	"1.48"	"1.322"
##	"1.859"	"9"	"5.25"	"2.017"
##	"1.854"	"30"	"21.56"	"4.551"
##	"1.853"	"7"	"3.62"	"1.825"
##	"1.849"	"5"	"2.16"	"1.536"
##	"1.844"	"12"	"7.25"	"2.576"
##	"1.84"	"2"	"0.16"	"0.368"
##	"1.835"	"36"	"26.4"	"5.232"
##	"1.83"	"2"	"0.17"	"0.378"
##	"1.824"	"7"	"3.72"	"1.798"
##	"1.813"	"8"	"4.67"	"1.837"
##	"1.809"	"4"	"1.69"	"1.277"
##	"1.802"	"25"	"16.99"	"4.446"
##	"1.799"	"6"	"2.81"	"1.774"
##	"1.78"	"2"	"0.22"	"0.416"
##	"1.774"	"6"	"2.97"	"1.708"
##	"1.773"	"98"	"82.49"	"8.748"
##	"1.773"	"3"	"1"	"1.128"
##	"1.767"	"13"	"8.24"	"2.694"
##	"1.752"	"14"	"8.64"	"3.06"
##	"1.752"	"44"	"33.95"	"5.736"
##	"1.75"	"2"	"0.25"	"0.479"
##	"1.749"	"386"	"355.08"	"17.679"
##	"1.748"	"13"	"7.59"	"3.095"
##	"1.746"	"22"	"15.95"	"3.465"
##	"1.743"	"12"	"7.47"	"2.599"
##	"1.736"	"12"	"7.55"	"2.564"
##	"1.727"	"6"	"2.97"	"1.755"
##	"1.725"	"8"	"4.78"	"1.867"
##	"1.723"	"6"	"3"	"1.741"
##	"1.72"	"2"	"0.28"	"0.552"
##	"1.719"	"19"	"12.43"	"3.822"
##	"1.718"	"35"	"26.42"	"4.993"
##	"1.713"	"39"	"29.69"	"5.436"
##	"1.71"	"34"	"25.21"	"5.139"
##	"1.692"	"19"	"13.13"	"3.469"
##	"1.692"	"34"	"25.81"	"4.84"
##	"1.689"	"20"	"13.99"	"3.558"
##	"1.674"	"7"	"3.81"	"1.905"
##	"1.674"	"41"	"31.04"	"5.949"
##	"1.674"	"111"	"95.08"	"9.509"
##	"1.671"	"3056"	"2967.68"	"52.859"
##	"1.67"	"5"	"2.41"	"1.551"
##	"1.662"	"6"	"3.06"	"1.769"
##	"1.66"	"2"	"0.34"	"0.655"
##	"1.66"	"24"	"17.04"	"4.192"
##	"1.66"	"2"	"0.34"	"0.555"
##	"1.659"	"7"	"3.92"	"1.857"
##	"1.644"	"8"	"4.46"	"2.153"
##	"1.644"	"24"	"17.94"	"3.687"

##	"1.644"	"41"	"32.1"	"5.415"
##	"1.635"	"136"	"119.15"	"10.305"
##	"1.627"	"13"	"8.33"	"2.871"
##	"1.622"	"3"	"1.22"	"1.097"
##	"1.614"	"11"	"7.06"	"2.44"
##	"1.612"	"6"	"2.99"	"1.867"
##	"1.61"	"3"	"1.15"	"1.149"
##	"1.61"	"6"	"3.25"	"1.708"
##	"1.602"	"8"	"4.52"	"2.172"
##	"1.6"	"2"	"0.4"	"0.636"
##	"1.596"	"3"	"1.21"	"1.122"
##	"1.593"	"66"	"54.64"	"7.13"
##	"1.59"	"2"	"0.41"	"0.588"
##	"1.583"	"6"	"3.11"	"1.825"
##	"1.575"	"44"	"34.86"	"5.801"
##	"1.567"	"18"	"12.47"	"3.529"
##	"1.566"	"4"	"1.83"	"1.386"
##	"1.56"	"60"	"49.51"	"6.723"
##	"1.55"	"2"	"0.45"	"0.626"
##	"1.543"	"29"	"22.64"	"4.121"
##	"1.53"	"2"	"0.47"	"0.731"
##	"1.526"	"3"	"1.31"	"1.107"
##	"1.521"	"52"	"42.81"	"6.043"
##	"1.513"	"4"	"1.94"	"1.362"
##	"1.51"	"2"	"0.49"	"0.659"
##	"1.495"	"11"	"7.12"	"2.595"
##	"1.49"	"2"	"0.51"	"0.628"
##	"1.49"	"2"	"0.51"	"0.628"
##	"1.49"	"2"	"0.51"	"0.628"
##	"1.487"	"15"	"10.47"	"3.047"
##	"1.465"	"14"	"9.23"	"3.256"
##	"1.464"	"11"	"7.15"	"2.63"
##	"1.46"	"2"	"0.54"	"0.658"
##	"1.457"	"34"	"26.31"	"5.278"
##	"1.454"	"4"	"2.07"	"1.328"
##	"1.454"	"4"	"2.07"	"1.328"
##	"1.454"	"4"	"2.07"	"1.328"
##	"1.454"	"4"	"2.07"	"1.328"
##	"1.454"	"4"	"2.07"	"1.328"
##	"1.44"	"2"	"0.56"	"0.783"
##	"1.439"	"9"	"5.52"	"2.418"
##	"1.439"	"8"	"4.91"	"2.147"
##	"1.435"	"29"	"22.82"	"4.307"
##	"1.434"	"5"	"2.71"	"1.597"
##	"1.432"	"35"	"27.78"	"5.042"
##	"1.422"	"62"	"50.98"	"7.749"
##	"1.412"	"9"	"5.62"	"2.394"
##	"1.408"	"23"	"17.44"	"3.95"
##	"1.408"	"4"	"2.09"	"1.357"
##	"1.397"	"169"	"153.42"	"11.155"
##	"1.394"	"3"	"1.37"	"1.169"
##	"1.371"	"3"	"1.51"	"1.087"
##	"1.371"	"8"	"5.29"	"1.976"
##	"1.355"	"46"	"37.76"	"6.082"

##	"1.354"	"12"	"8"	"2.954"
##	"1.354"	"5"	"2.82"	"1.61"
##	"1.34"	"2"	"0.66"	"0.742"
##	"1.34"	"2"	"0.66"	"0.781"
##	"1.34"	"2"	"0.66"	"0.781"
##	"1.34"	"2"	"0.66"	"0.742"
##	"1.31"	"2"	"0.69"	"0.787"
##	"1.305"	"73"	"62.38"	"8.139"
##	"1.3"	"2"	"0.7"	"0.937"
##	"1.3"	"2"	"0.7"	"0.937"
##	"1.3"	"2"	"0.7"	"0.937"
##	"1.294"	"27"	"21.26"	"4.437"
##	"1.281"	"94"	"83.1"	"8.51"
##	"1.28"	"2"	"0.72"	"0.911"
##	"1.27"	"2"	"0.73"	"0.839"
##	"1.27"	"2"	"0.73"	"0.827"
##	"1.263"	"127"	"115.13"	"9.396"
##	"1.248"	"3"	"1.46"	"1.234"
##	"1.247"	"76"	"65.98"	"8.038"
##	"1.24"	"2"	"0.76"	"0.866"
##	"1.23"	"2"	"0.77"	"0.92"
##	"1.224"	"37"	"30.37"	"5.415"
##	"1.22"	"2"	"0.78"	"0.949"
##	"1.21"	"2"	"0.79"	"0.957"
##	"1.205"	"3"	"1.61"	"1.154"
##	"1.192"	"8"	"5.45"	"2.139"
##	"1.191"	"6"	"3.66"	"1.965"
##	"1.191"	"13"	"9.46"	"2.973"
##	"1.171"	"11"	"7.6"	"2.902"
##	"1.164"	"4"	"2.19"	"1.555"
##	"1.16"	"2"	"0.84"	"0.918"
##	"1.16"	"2"	"0.84"	"0.918"
##	"1.154"	"25"	"19.82"	"4.489"
##	"1.152"	"3"	"1.58"	"1.232"
##	"1.151"	"3"	"1.67"	"1.155"
##	"1.147"	"8"	"5.29"	"2.363"
##	"1.147"	"11"	"7.77"	"2.817"
##	"1.146"	"9"	"6.09"	"2.539"
##	"1.139"	"66"	"58.12"	"6.918"
##	"1.13"	"2"	"0.87"	"0.917"
##	"1.121"	"5"	"3.12"	"1.677"
##	"1.121"	"5"	"3.12"	"1.677"
##	"1.115"	"14"	"10.45"	"3.183"
##	"1.111"	"3"	"1.55"	"1.306"
##	"1.111"	"6"	"3.78"	"1.998"
##	"1.105"	"26"	"20.78"	"4.726"
##	"1.09"	"19"	"14.91"	"3.753"
##	"1.087"	"3"	"1.65"	"1.242"
##	"1.083"	"4"	"2.38"	"1.496"
##	"1.08"	"14"	"10.42"	"3.316"
##	"1.078"	"3"	"1.74"	"1.169"
##	"1.07"	"2"	"0.93"	"0.967"
##	"1.07"	"2"	"0.93"	"0.967"
##	"1.069"	"69"	"60.72"	"7.747"

##	"1.061"	"34"	"28.52"	"5.163"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.05"	"2"	"0.95"	"0.892"
##	"1.044"	"6"	"4.06"	"1.858"
##	"1.019"	"75"	"66.62"	"8.223"
##	"1.019"	"29"	"24.18"	"4.732"
##	"1.015"	"3"	"1.78"	"1.203"
##	"1.013"	"7"	"4.75"	"2.222"
##	"1.01"	"2"	"0.99"	"0.99"
##	"1.007"	"23"	"18.69"	"4.28"
##	"1"	"1"	"0"	"0"
##	"1"	"1"	"0"	"0"
##	"1"	"1"	"0"	"0"
##	"1"	"1"	"0"	"0"
##	"0.997"	"4"	"2.34"	"1.665"
##	"0.995"	"16"	"12.62"	"3.399"
##	"0.986"	"6"	"4.06"	"1.969"
##	"0.983"	"42"	"35.8"	"6.307"
##	"0.98"	"1"	"0.02"	"0.141"
##	"0.98"	"1"	"0.02"	"0.141"
##	"0.977"	"12"	"9.14"	"2.927"
##	"0.972"	"13"	"9.84"	"3.25"
##	"0.971"	"5"	"3.21"	"1.844"
##	"0.97"	"1"	"0.03"	"0.223"
##	"0.96"	"1"	"0.04"	"0.197"
##	"0.96"	"1"	"0.04"	"0.197"
##	"0.952"	"6"	"3.95"	"2.153"
##	"0.95"	"1"	"0.05"	"0.219"
##	"0.95"	"1"	"0.05"	"0.219"
##	"0.95"	"1"	"0.05"	"0.219"
##	"0.95"	"1"	"0.05"	"0.219"
##	"0.95"	"1"	"0.05"	"0.219"
##	"0.94"	"1"	"0.06"	"0.239"
##	"0.94"	"1"	"0.06"	"0.239"
##	"0.94"	"1"	"0.06"	"0.239"
##	"0.93"	"1"	"0.07"	"0.256"
##	"0.926"	"12"	"9.17"	"3.055"
##	"0.92"	"1"	"0.08"	"0.273"
##	"0.92"	"1"	"0.08"	"0.273"
##	"0.916"	"3"	"1.8"	"1.31"
##	"0.914"	"14"	"11.06"	"3.216"
##	"0.913"	"17"	"13.94"	"3.351"
##	"0.91"	"1"	"0.09"	"0.288"

##	"0.91"	"1"	"0.09"	"0.288"
##	"0.91"	"1"	"0.09"	"0.288"
##	"0.908"	"2"	"1"	"1.101"
##	"0.898"	"5"	"3.42"	"1.759"
##	"0.898"	"5"	"3.42"	"1.759"
##	"0.897"	"3"	"1.74"	"1.404"
##	"0.895"	"4"	"2.62"	"1.543"
##	"0.89"	"1"	"0.11"	"0.345"
##	"0.89"	"1"	"0.11"	"0.345"
##	"0.89"	"1"	"0.11"	"0.314"
##	"0.89"	"1"	"0.11"	"0.314"
##	"0.89"	"1"	"0.11"	"0.345"
##	"0.887"	"21"	"17.78"	"3.631"
##	"0.881"	"3"	"1.79"	"1.373"
##	"0.88"	"1"	"0.12"	"0.356"
##	"0.87"	"1"	"0.13"	"0.338"
##	"0.87"	"1"	"0.13"	"0.393"
##	"0.87"	"1"	"0.13"	"0.393"
##	"0.87"	"1"	"0.13"	"0.338"
##	"0.87"	"1"	"0.13"	"0.338"
##	"0.869"	"8"	"6.08"	"2.21"
##	"0.86"	"1"	"0.14"	"0.427"
##	"0.86"	"1"	"0.14"	"0.427"
##	"0.855"	"2"	"1.09"	"1.065"
##	"0.854"	"123"	"114.76"	"9.643"
##	"0.851"	"9"	"6.95"	"2.409"
##	"0.85"	"1"	"0.15"	"0.386"
##	"0.848"	"8"	"5.94"	"2.428"
##	"0.841"	"57"	"51.06"	"7.059"
##	"0.837"	"4"	"2.63"	"1.637"
##	"0.836"	"86"	"79.83"	"7.376"
##	"0.834"	"3"	"1.84"	"1.391"
##	"0.83"	"1"	"0.17"	"0.403"
##	"0.823"	"8"	"6.08"	"2.334"
##	"0.821"	"7"	"5.18"	"2.217"
##	"0.82"	"1"	"0.18"	"0.479"
##	"0.82"	"1"	"0.18"	"0.458"
##	"0.811"	"8"	"5.83"	"2.674"
##	"0.81"	"10"	"7.66"	"2.889"
##	"0.806"	"14"	"11.06"	"3.648"
##	"0.805"	"2"	"1.18"	"1.019"
##	"0.804"	"4"	"2.61"	"1.729"
##	"0.8"	"2"	"1.2"	"0.995"
##	"0.798"	"8"	"6.2"	"2.256"
##	"0.795"	"8"	"6.18"	"2.289"
##	"0.79"	"1"	"0.21"	"0.456"
##	"0.772"	"252"	"240.89"	"14.384"
##	"0.764"	"3"	"1.95"	"1.373"
##	"0.76"	"1"	"0.24"	"0.515"
##	"0.754"	"17"	"14.48"	"3.341"
##	"0.754"	"15"	"12.67"	"3.091"
##	"0.752"	"80"	"73.85"	"8.174"
##	"0.751"	"14"	"11.62"	"3.168"
##	"0.75"	"1"	"0.25"	"0.479"

##	"0.75"	"1"	"0.25"	"0.5"
##	"0.745"	"5"	"3.55"	"1.946"
##	"0.745"	"5"	"3.55"	"1.946"
##	"0.743"	"6"	"4.44"	"2.1"
##	"0.74"	"1"	"0.26"	"0.525"
##	"0.738"	"3"	"1.97"	"1.396"
##	"0.737"	"10"	"7.96"	"2.767"
##	"0.73"	"1"	"0.27"	"0.566"
##	"0.73"	"1"	"0.27"	"0.566"
##	"0.726"	"47"	"42.58"	"6.087"
##	"0.718"	"13"	"10.61"	"3.327"
##	"0.71"	"1"	"0.29"	"0.574"
##	"0.71"	"1"	"0.29"	"0.518"
##	"0.709"	"2"	"1.2"	"1.128"
##	"0.7"	"3"	"2.12"	"1.258"
##	"0.699"	"51"	"46.25"	"6.799"
##	"0.686"	"2"	"1.26"	"1.079"
##	"0.681"	"2"	"1.27"	"1.072"
##	"0.678"	"2"	"1.22"	"1.151"
##	"0.669"	"169"	"160.42"	"12.816"
##	"0.664"	"2"	"1.27"	"1.1"
##	"0.66"	"1"	"0.34"	"0.639"
##	"0.66"	"1"	"0.34"	"0.572"
##	"0.66"	"1"	"0.34"	"0.572"
##	"0.655"	"4"	"2.95"	"1.604"
##	"0.65"	"1"	"0.35"	"0.592"
##	"0.64"	"1"	"0.36"	"0.612"
##	"0.632"	"6"	"4.82"	"1.866"
##	"0.626"	"7"	"5.52"	"2.363"
##	"0.624"	"3"	"2.16"	"1.346"
##	"0.62"	"1"	"0.38"	"0.599"
##	"0.62"	"1"	"0.38"	"0.565"
##	"0.62"	"1"	"0.38"	"0.678"
##	"0.62"	"1"	"0.38"	"0.616"
##	"0.62"	"1"	"0.38"	"0.599"
##	"0.62"	"1"	"0.38"	"0.565"
##	"0.619"	"13"	"10.92"	"3.36"
##	"0.61"	"1"	"0.39"	"0.567"
##	"0.61"	"1"	"0.39"	"0.53"
##	"0.61"	"1"	"0.39"	"0.634"
##	"0.604"	"2"	"1.35"	"1.077"
##	"0.6"	"1"	"0.4"	"0.636"
##	"0.6"	"1"	"0.4"	"0.682"
##	"0.6"	"1"	"0.4"	"0.586"
##	"0.575"	"4"	"3.01"	"1.72"
##	"0.57"	"1"	"0.43"	"0.714"
##	"0.565"	"43"	"39.37"	"6.424"
##	"0.56"	"1"	"0.44"	"0.592"
##	"0.56"	"1"	"0.44"	"0.625"
##	"0.557"	"2"	"1.35"	"1.167"
##	"0.555"	"3"	"2.2"	"1.443"
##	"0.54"	"1"	"0.46"	"0.626"
##	"0.533"	"9"	"7.47"	"2.869"
##	"0.532"	"3"	"2.2"	"1.504"

##	"0.532"	"97"	"91.99"	"9.42"
##	"0.53"	"19"	"16.97"	"3.831"
##	"0.527"	"4"	"3.13"	"1.649"
##	"0.524"	"4"	"3.15"	"1.623"
##	"0.52"	"1"	"0.48"	"0.717"
##	"0.52"	"4"	"3.11"	"1.711"
##	"0.52"	"1"	"0.48"	"0.674"
##	"0.508"	"2"	"1.4"	"1.181"
##	"0.5"	"1"	"0.5"	"0.659"
##	"0.49"	"1"	"0.51"	"0.689"
##	"0.49"	"1"	"0.51"	"0.703"
##	"0.484"	"30"	"27.42"	"5.334"
##	"0.48"	"1"	"0.52"	"0.703"
##	"0.48"	"1"	"0.52"	"0.703"
##	"0.48"	"1"	"0.52"	"0.731"
##	"0.474"	"3"	"2.32"	"1.435"
##	"0.47"	"1"	"0.53"	"0.658"
##	"0.46"	"1"	"0.54"	"0.822"
##	"0.458"	"4"	"3.23"	"1.681"
##	"0.457"	"114"	"109.94"	"8.885"
##	"0.442"	"9"	"7.84"	"2.624"
##	"0.44"	"1"	"0.56"	"0.656"
##	"0.43"	"1"	"0.57"	"0.832"
##	"0.43"	"1"	"0.57"	"0.756"
##	"0.429"	"2"	"1.51"	"1.141"
##	"0.423"	"3"	"2.36"	"1.514"
##	"0.423"	"3"	"2.36"	"1.514"
##	"0.409"	"55"	"51.99"	"7.368"
##	"0.408"	"2"	"1.47"	"1.298"
##	"0.408"	"2"	"1.47"	"1.298"
##	"0.408"	"2"	"1.47"	"1.298"
##	"0.406"	"2"	"1.53"	"1.159"
##	"0.387"	"2"	"1.5"	"1.291"
##	"0.384"	"2"	"1.51"	"1.275"
##	"0.382"	"6"	"5.11"	"2.331"
##	"0.38"	"1"	"0.62"	"0.789"
##	"0.38"	"4"	"3.34"	"1.736"
##	"0.38"	"1"	"0.62"	"0.789"
##	"0.377"	"3"	"2.38"	"1.644"
##	"0.37"	"1"	"0.63"	"0.761"
##	"0.37"	"1"	"0.63"	"0.761"
##	"0.37"	"1"	"0.63"	"0.761"
##	"0.37"	"1"	"0.63"	"0.884"
##	"0.37"	"1"	"0.63"	"0.787"
##	"0.36"	"1"	"0.64"	"0.759"
##	"0.36"	"1"	"0.64"	"0.759"
##	"0.357"	"4"	"3.39"	"1.711"
##	"0.352"	"2"	"1.6"	"1.137"
##	"0.35"	"4"	"3.35"	"1.855"
##	"0.35"	"1"	"0.65"	"0.903"
##	"0.347"	"22"	"20.48"	"4.384"
##	"0.343"	"16"	"14.72"	"3.736"
##	"0.34"	"1"	"0.66"	"0.807"
##	"0.34"	"1"	"0.66"	"0.934"

##	"0.34"	"1"	"0.66"	"0.934"
##	"0.34"	"1"	"0.66"	"0.807"
##	"0.33"	"1"	"0.67"	"0.726"
##	"0.328"	"2"	"1.58"	"1.281"
##	"0.322"	"2"	"1.62"	"1.179"
##	"0.318"	"2"	"1.64"	"1.133"
##	"0.312"	"13"	"11.87"	"3.62"
##	"0.309"	"4"	"3.42"	"1.876"
##	"0.309"	"4"	"3.42"	"1.876"
##	"0.309"	"4"	"3.42"	"1.876"
##	"0.309"	"4"	"3.42"	"1.876"
##	"0.309"	"4"	"3.42"	"1.876"
##	"0.309"	"4"	"3.42"	"1.876"
##	"0.309"	"4"	"3.42"	"1.876"
##	"0.309"	"4"	"3.42"	"1.876"
##	"0.302"	"27"	"25.51"	"4.933"
##	"0.301"	"2"	"1.66"	"1.13"
##	"0.3"	"1"	"0.7"	"0.847"
##	"0.3"	"1"	"0.7"	"0.847"
##	"0.3"	"1"	"0.7"	"0.759"
##	"0.289"	"52"	"49.74"	"7.813"
##	"0.282"	"3"	"2.54"	"1.629"
##	"0.282"	"4"	"3.51"	"1.738"
##	"0.282"	"3"	"2.54"	"1.629"
##	"0.28"	"1"	"0.72"	"0.922"
##	"0.28"	"1"	"0.72"	"0.842"
##	"0.28"	"1"	"0.72"	"0.817"
##	"0.28"	"1"	"0.72"	"0.792"
##	"0.28"	"1"	"0.72"	"0.889"
##	"0.275"	"14"	"13.01"	"3.606"
##	"0.272"	"36"	"34.43"	"5.776"
##	"0.27"	"1"	"0.73"	"0.952"
##	"0.27"	"1"	"0.73"	"0.886"
##	"0.27"	"1"	"0.73"	"0.79"
##	"0.258"	"12"	"11.12"	"3.406"
##	"0.25"	"1"	"0.75"	"0.892"
##	"0.25"	"1"	"0.75"	"0.999"
##	"0.247"	"1716"	"1704.69"	"45.724"
##	"0.24"	"1"	"0.76"	"0.78"
##	"0.24"	"1"	"0.76"	"0.78"
##	"0.24"	"1"	"0.76"	"0.78"
##	"0.233"	"3"	"2.66"	"1.458"
##	"0.231"	"6"	"5.49"	"2.209"
##	"0.23"	"1"	"0.77"	"0.941"
##	"0.228"	"136"	"133.4"	"11.385"
##	"0.225"	"58"	"56.16"	"8.167"
##	"0.22"	"1"	"0.78"	"0.76"
##	"0.22"	"43"	"41.5"	"6.834"
##	"0.216"	"7"	"6.43"	"2.637"
##	"0.215"	"3"	"2.67"	"1.538"
##	"0.212"	"5"	"4.57"	"2.026"
##	"0.21"	"1"	"0.79"	"0.935"
##	"0.206"	"2"	"1.71"	"1.409"

##	"0.203"	"5"	"4.56"	"2.171"
##	"0.2"	"1"	"0.8"	"0.876"
##	"0.19"	"1"	"0.81"	"0.94"
##	"0.187"	"544"	"539.95"	"21.69"
##	"0.181"	"3"	"2.7"	"1.661"
##	"0.18"	"2"	"1.75"	"1.388"
##	"0.18"	"1"	"0.82"	"0.783"
##	"0.176"	"6"	"5.6"	"2.27"
##	"0.171"	"2"	"1.76"	"1.401"
##	"0.17"	"1"	"0.83"	"0.829"
##	"0.17"	"1"	"0.83"	"0.911"
##	"0.164"	"2"	"1.78"	"1.338"
##	"0.161"	"31"	"30.16"	"5.226"
##	"0.16"	"1"	"0.84"	"0.95"
##	"0.159"	"12"	"11.52"	"3.023"
##	"0.155"	"8"	"7.61"	"2.518"
##	"0.154"	"3"	"2.78"	"1.425"
##	"0.151"	"13"	"12.5"	"3.304"
##	"0.151"	"4"	"3.72"	"1.859"
##	"0.143"	"6"	"5.67"	"2.314"
##	"0.142"	"170"	"168.19"	"12.749"
##	"0.142"	"9"	"8.58"	"2.962"
##	"0.14"	"1"	"0.86"	"0.876"
##	"0.14"	"1"	"0.86"	"0.853"
##	"0.14"	"1"	"0.86"	"0.876"
##	"0.14"	"1"	"0.86"	"0.853"
##	"0.14"	"1"	"0.86"	"0.876"
##	"0.13"	"1"	"0.87"	"0.825"
##	"0.13"	"1"	"0.87"	"0.928"
##	"0.13"	"1"	"0.87"	"0.825"
##	"0.13"	"1"	"0.87"	"0.971"
##	"0.13"	"1"	"0.87"	"0.971"
##	"0.128"	"63"	"61.96"	"8.133"
##	"0.125"	"2"	"1.83"	"1.364"
##	"0.12"	"1"	"0.88"	"0.902"
##	"0.114"	"73"	"72"	"8.801"
##	"0.11"	"1"	"0.89"	"0.92"
##	"0.11"	"1"	"0.89"	"0.973"
##	"0.109"	"20"	"19.52"	"4.423"
##	"0.105"	"6"	"5.73"	"2.574"
##	"0.104"	"25"	"24.5"	"4.8"
##	"0.102"	"2"	"1.86"	"1.378"
##	"0.101"	"2"	"1.87"	"1.284"
##	"0.097"	"2"	"1.87"	"1.338"
##	"0.097"	"2"	"1.87"	"1.338"
##	"0.096"	"2"	"1.87"	"1.361"
##	"0.094"	"17"	"16.56"	"4.698"
##	"0.09"	"1"	"0.91"	"0.965"
##	"0.09"	"1"	"0.91"	"0.975"
##	"0.09"	"1"	"0.91"	"0.866"
##	"0.09"	"1"	"0.91"	"0.975"
##	"0.089"	"1"	"0.91"	"1.006"
##	"0.089"	"1"	"0.91"	"1.006"
##	"0.086"	"4"	"3.82"	"2.086"

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##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"
##	"0"	"9"	"9"	"2.825"
##	"0"	"0"	"0"	"0"
##	"0"	"0"	"0"	"0"

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

##	"-0.07"	"0"	"0.07"	"0.256"
##	"-0.07"	"0"	"0.07"	"0.256"
##	"-0.07"	"0"	"0.07"	"0.256"
##	"-0.07"	"1"	"1.07"	"0.998"
##	"-0.07"	"0"	"0.07"	"0.293"
##	"-0.07"	"0"	"0.07"	"0.256"
##	"-0.07"	"0"	"0.07"	"0.256"
##	"-0.07"	"0"	"0.07"	"0.256"
##	"-0.07"	"0"	"0.07"	"0.256"
##	"-0.07"	"0"	"0.07"	"0.256"
##	"-0.07"	"0"	"0.07"	"0.256"
##	"-0.071"	"4"	"4.13"	"1.829"
##	"-0.077"	"26"	"26.33"	"4.302"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.307"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.307"
##	"-0.08"	"0"	"0.08"	"0.307"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.08"	"0"	"0.08"	"0.273"
##	"-0.081"	"577"	"578.84"	"22.819"
##	"-0.088"	"19"	"19.41"	"4.652"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"

##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.321"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.09"	"0"	"0.09"	"0.288"
##	"-0.096"	"1"	"1.1"	"1.04"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"4"	"4.21"	"2.1"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"6"	"6.25"	"2.488"
##	"-0.1"	"1"	"1.1"	"0.948"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.1"	"0"	"0.1"	"0.333"
##	"-0.1"	"0"	"0.1"	"0.302"
##	"-0.103"	"2"	"2.14"	"1.363"
##	"-0.106"	"4"	"4.19"	"1.785"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.373"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.399"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"

##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.314"
##	"-0.11"	"0"	"0.11"	"0.345"
##	"-0.116"	"1"	"1.12"	"1.037"
##	"-0.12"	"0"	"0.12"	"0.356"
##	"-0.12"	"0"	"0.12"	"0.356"
##	"-0.12"	"0"	"0.12"	"0.356"
##	"-0.12"	"0"	"0.12"	"0.356"
##	"-0.12"	"0"	"0.12"	"0.383"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.383"
##	"-0.12"	"0"	"0.12"	"0.356"
##	"-0.12"	"0"	"0.12"	"0.356"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.409"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.12"	"0"	"0.12"	"0.327"
##	"-0.126"	"3"	"3.23"	"1.825"
##	"-0.127"	"2"	"2.19"	"1.495"
##	"-0.128"	"99"	"100.14"	"8.919"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"1"	"1.13"	"0.991"
##	"-0.13"	"0"	"0.13"	"0.367"
##	"-0.13"	"0"	"0.13"	"0.442"
##	"-0.13"	"0"	"0.13"	"0.393"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.393"
##	"-0.13"	"0"	"0.13"	"0.393"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.393"
##	"-0.13"	"0"	"0.13"	"0.393"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.13"	"0"	"0.13"	"0.338"
##	"-0.134"	"2"	"2.2"	"1.491"
##	"-0.134"	"1"	"1.14"	"1.045"
##	"-0.135"	"1"	"1.16"	"1.187"
##	"-0.135"	"4"	"4.28"	"2.08"

##	"-0.138"	"1"	"1.14"	"1.015"
##	"-0.14"	"0"	"0.14"	"0.377"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.403"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.403"
##	"-0.14"	"0"	"0.14"	"0.377"
##	"-0.14"	"0"	"0.14"	"0.403"
##	"-0.14"	"0"	"0.14"	"0.403"
##	"-0.14"	"0"	"0.14"	"0.403"
##	"-0.14"	"0"	"0.14"	"0.377"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.403"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.377"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.14"	"0"	"0.14"	"0.349"
##	"-0.142"	"2"	"2.19"	"1.339"
##	"-0.142"	"43"	"43.97"	"6.833"
##	"-0.143"	"4"	"4.3"	"2.091"
##	"-0.147"	"1"	"1.17"	"1.155"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.359"
##	"-0.15"	"0"	"0.15"	"0.386"
##	"-0.15"	"5"	"5.36"	"2.397"
##	"-0.152"	"3"	"3.26"	"1.709"
##	"-0.152"	"3"	"3.28"	"1.843"
##	"-0.153"	"10"	"10.47"	"3.08"
##	"-0.153"	"10"	"10.47"	"3.08"
##	"-0.153"	"10"	"10.47"	"3.08"
##	"-0.157"	"2"	"2.24"	"1.525"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.368"

##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.42"
##	"-0.16"	"0"	"0.16"	"0.42"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.443"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.465"
##	"-0.16"	"0"	"0.16"	"0.465"
##	"-0.16"	"0"	"0.16"	"0.465"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.42"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.443"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.443"
##	"-0.16"	"1"	"1.17"	"1.064"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.443"
##	"-0.16"	"0"	"0.16"	"0.443"
##	"-0.16"	"0"	"0.16"	"0.443"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.443"
##	"-0.16"	"0"	"0.16"	"0.443"
##	"-0.16"	"0"	"0.16"	"0.443"
##	"-0.16"	"0"	"0.16"	"0.395"
##	"-0.16"	"0"	"0.16"	"0.42"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.368"
##	"-0.16"	"0"	"0.16"	"0.443"
##	"-0.17"	"0"	"0.17"	"0.403"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.403"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.378"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.17"	"0"	"0.17"	"0.428"
##	"-0.174"	"5"	"5.38"	"2.182"
##	"-0.175"	"23"	"23.75"	"4.286"

##	"-0.175"	"3"	"3.31"	"1.768"
##	"-0.179"	"91"	"92.69"	"9.422"
##	"-0.179"	"26"	"26.93"	"5.194"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.386"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.386"
##	"-0.18"	"0"	"0.18"	"0.458"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.386"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"21"	"21.79"	"4.395"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.479"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.18"	"0"	"0.18"	"0.435"
##	"-0.18"	"0"	"0.18"	"0.411"
##	"-0.183"	"135"	"136.82"	"9.947"
##	"-0.184"	"1"	"1.22"	"1.194"
##	"-0.184"	"1"	"1.22"	"1.194"
##	"-0.184"	"1"	"1.22"	"1.194"
##	"-0.188"	"1"	"1.2"	"1.064"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.465"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.394"
##	"-0.19"	"0"	"0.19"	"0.486"
##	"-0.19"	"0"	"0.19"	"0.443"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.419"
##	"-0.19"	"0"	"0.19"	"0.443"
##	"-0.192"	"1"	"1.21"	"1.094"
##	"-0.196"	"152"	"154.29"	"11.655"
##	"-0.196"	"4"	"4.37"	"1.884"
##	"-0.197"	"50"	"51.37"	"6.947"
##	"-0.2"	"0"	"0.2"	"0.449"
##	"-0.2"	"0"	"0.2"	"0.492"
##	"-0.2"	"0"	"0.2"	"0.402"
##	"-0.2"	"0"	"0.2"	"0.492"
##	"-0.2"	"0"	"0.2"	"0.449"
##	"-0.2"	"0"	"0.2"	"0.449"

##	"-0.2"	"0"	"0.2"	"0.426"
##	"-0.2"	"0"	"0.2"	"0.426"
##	"-0.2"	"0"	"0.2"	"0.492"
##	"-0.2"	"0"	"0.2"	"0.426"
##	"-0.2"	"0"	"0.2"	"0.402"
##	"-0.2"	"0"	"0.2"	"0.492"
##	"-0.205"	"3"	"3.38"	"1.857"
##	"-0.208"	"1"	"1.25"	"1.201"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.409"
##	"-0.21"	"0"	"0.21"	"0.433"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.409"
##	"-0.21"	"0"	"0.21"	"0.478"
##	"-0.21"	"0"	"0.21"	"0.433"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.433"
##	"-0.21"	"0"	"0.21"	"0.456"
##	"-0.21"	"0"	"0.21"	"0.478"
##	"-0.214"	"143"	"145.53"	"11.835"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"0"	"0.22"	"0.462"
##	"-0.22"	"0"	"0.22"	"0.462"
##	"-0.22"	"0"	"0.22"	"0.484"
##	"-0.22"	"0"	"0.22"	"0.504"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"0"	"0.22"	"0.44"
##	"-0.22"	"0"	"0.22"	"0.462"
##	"-0.222"	"5"	"5.53"	"2.385"
##	"-0.223"	"1"	"1.24"	"1.074"
##	"-0.225"	"1"	"1.23"	"1.024"
##	"-0.226"	"29"	"30.21"	"5.343"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"12"	"12.92"	"3.997"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.51"
##	"-0.23"	"0"	"0.23"	"0.51"
##	"-0.23"	"0"	"0.23"	"0.423"
##	"-0.23"	"0"	"0.23"	"0.489"
##	"-0.23"	"0"	"0.23"	"0.468"
##	"-0.23"	"0"	"0.23"	"0.468"
##	"-0.23"	"0"	"0.23"	"0.529"
##	"-0.23"	"0"	"0.23"	"0.446"

##	"-0.23"	"0"	"0.23"	"0.468"
##	"-0.23"	"0"	"0.23"	"0.423"
##	"-0.23"	"0"	"0.23"	"0.423"
##	"-0.23"	"0"	"0.23"	"0.529"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.51"
##	"-0.23"	"0"	"0.23"	"0.529"
##	"-0.23"	"0"	"0.23"	"0.446"
##	"-0.23"	"0"	"0.23"	"0.423"
##	"-0.23"	"0"	"0.23"	"0.529"
##	"-0.23"	"0"	"0.23"	"0.529"
##	"-0.24"	"0"	"0.24"	"0.474"
##	"-0.24"	"0"	"0.24"	"0.452"
##	"-0.24"	"0"	"0.24"	"0.553"
##	"-0.24"	"0"	"0.24"	"0.495"
##	"-0.24"	"0"	"0.24"	"0.495"
##	"-0.24"	"0"	"0.24"	"0.495"
##	"-0.24"	"0"	"0.24"	"0.474"
##	"-0.25"	"0"	"0.25"	"0.52"
##	"-0.25"	"0"	"0.25"	"0.52"
##	"-0.25"	"0"	"0.25"	"0.52"
##	"-0.25"	"0"	"0.25"	"0.479"
##	"-0.25"	"0"	"0.25"	"0.5"
##	"-0.25"	"0"	"0.25"	"0.458"
##	"-0.25"	"0"	"0.25"	"0.575"
##	"-0.25"	"0"	"0.25"	"0.479"
##	"-0.25"	"0"	"0.25"	"0.5"
##	"-0.25"	"0"	"0.25"	"0.52"
##	"-0.25"	"0"	"0.25"	"0.479"
##	"-0.25"	"0"	"0.25"	"0.52"
##	"-0.251"	"2"	"2.4"	"1.595"
##	"-0.252"	"23"	"24.11"	"4.413"
##	"-0.254"	"4"	"4.47"	"1.85"
##	"-0.254"	"58"	"59.97"	"7.762"
##	"-0.254"	"10"	"10.85"	"3.344"
##	"-0.26"	"0"	"0.26"	"0.505"
##	"-0.26"	"0"	"0.26"	"0.505"
##	"-0.26"	"0"	"0.26"	"0.525"
##	"-0.26"	"4"	"4.6"	"2.305"
##	"-0.26"	"0"	"0.26"	"0.579"
##	"-0.26"	"0"	"0.26"	"0.543"
##	"-0.26"	"0"	"0.26"	"0.463"
##	"-0.26"	"0"	"0.26"	"0.441"
##	"-0.26"	"0"	"0.26"	"0.441"
##	"-0.26"	"0"	"0.26"	"0.441"
##	"-0.26"	"0"	"0.26"	"0.441"
##	"-0.26"	"0"	"0.26"	"0.525"
##	"-0.26"	"0"	"0.26"	"0.463"
##	"-0.26"	"0"	"0.26"	"0.463"
##	"-0.26"	"0"	"0.26"	"0.505"
##	"-0.26"	"0"	"0.26"	"0.579"
##	"-0.27"	"0"	"0.27"	"0.468"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.566"

##	"-0.27"	"0"	"0.27"	"0.468"
##	"-0.27"	"0"	"0.27"	"0.468"
##	"-0.27"	"0"	"0.27"	"0.468"
##	"-0.27"	"0"	"0.27"	"0.489"
##	"-0.27"	"0"	"0.27"	"0.51"
##	"-0.27"	"0"	"0.27"	"0.548"
##	"-0.27"	"0"	"0.27"	"0.529"
##	"-0.271"	"1"	"1.31"	"1.143"
##	"-0.271"	"1"	"1.31"	"1.143"
##	"-0.28"	"0"	"0.28"	"0.552"
##	"-0.28"	"0"	"0.28"	"0.494"
##	"-0.28"	"0"	"0.28"	"0.514"
##	"-0.28"	"0"	"0.28"	"0.57"
##	"-0.28"	"0"	"0.28"	"0.494"
##	"-0.28"	"0"	"0.28"	"0.57"
##	"-0.28"	"0"	"0.28"	"0.533"
##	"-0.28"	"0"	"0.28"	"0.533"
##	"-0.284"	"2"	"2.45"	"1.585"
##	"-0.289"	"1"	"1.35"	"1.209"
##	"-0.29"	"0"	"0.29"	"0.556"
##	"-0.29"	"0"	"0.29"	"0.518"
##	"-0.29"	"0"	"0.29"	"0.518"
##	"-0.29"	"0"	"0.29"	"0.574"
##	"-0.29"	"0"	"0.29"	"0.537"
##	"-0.294"	"4"	"4.65"	"2.208"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"1"	"1.3"	"0.927"
##	"-0.3"	"0"	"0.3"	"0.56"
##	"-0.3"	"0"	"0.3"	"0.541"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.503"
##	"-0.3"	"0"	"0.3"	"0.541"
##	"-0.301"	"188"	"192.05"	"13.477"
##	"-0.301"	"13"	"14"	"3.324"
##	"-0.303"	"10"	"10.92"	"3.034"
##	"-0.303"	"1"	"1.34"	"1.121"
##	"-0.305"	"1"	"1.38"	"1.245"
##	"-0.307"	"1"	"1.35"	"1.14"
##	"-0.308"	"6"	"6.84"	"2.729"
##	"-0.31"	"0"	"0.31"	"0.581"
##	"-0.31"	"0"	"0.31"	"0.581"
##	"-0.31"	"0"	"0.31"	"0.506"
##	"-0.31"	"0"	"0.31"	"0.598"
##	"-0.31"	"0"	"0.31"	"0.563"
##	"-0.31"	"0"	"0.31"	"0.506"
##	"-0.311"	"1"	"1.34"	"1.094"
##	"-0.32"	"0"	"0.32"	"0.584"
##	"-0.32"	"0"	"0.32"	"0.51"
##	"-0.32"	"0"	"0.32"	"0.53"
##	"-0.32"	"0"	"0.32"	"0.548"
##	"-0.32"	"0"	"0.32"	"0.51"

##	"-0.326"	"1"	"1.37"	"1.134"
##	"-0.33"	"0"	"0.33"	"0.587"
##	"-0.33"	"0"	"0.33"	"0.604"
##	"-0.33"	"0"	"0.33"	"0.514"
##	"-0.33"	"0"	"0.33"	"0.514"
##	"-0.33"	"0"	"0.33"	"0.514"
##	"-0.33"	"0"	"0.33"	"0.57"
##	"-0.33"	"0"	"0.33"	"0.587"
##	"-0.33"	"0"	"0.33"	"0.587"
##	"-0.33"	"0"	"0.33"	"0.514"
##	"-0.33"	"0"	"0.33"	"0.587"
##	"-0.33"	"0"	"0.33"	"0.493"
##	"-0.33"	"0"	"0.33"	"0.57"
##	"-0.33"	"0"	"0.33"	"0.514"
##	"-0.33"	"0"	"0.33"	"0.57"
##	"-0.33"	"0"	"0.33"	"0.57"
##	"-0.332"	"1"	"1.37"	"1.116"
##	"-0.335"	"8"	"8.97"	"2.897"
##	"-0.335"	"5"	"5.85"	"2.536"
##	"-0.336"	"2"	"2.5"	"1.487"
##	"-0.336"	"2"	"2.5"	"1.487"
##	"-0.336"	"8"	"8.95"	"2.83"
##	"-0.34"	"0"	"0.34"	"0.59"
##	"-0.34"	"0"	"0.34"	"0.67"
##	"-0.34"	"0"	"0.34"	"0.536"
##	"-0.34"	"0"	"0.34"	"0.59"
##	"-0.34"	"0"	"0.34"	"0.536"
##	"-0.34"	"0"	"0.34"	"0.536"
##	"-0.34"	"0"	"0.34"	"0.59"
##	"-0.34"	"0"	"0.34"	"0.623"
##	"-0.34"	"0"	"0.34"	"0.536"
##	"-0.343"	"4"	"4.71"	"2.071"
##	"-0.348"	"4"	"4.7"	"2.013"
##	"-0.348"	"38"	"39.95"	"5.598"
##	"-0.35"	"0"	"0.35"	"0.592"
##	"-0.35"	"0"	"0.35"	"0.609"
##	"-0.35"	"0"	"0.35"	"0.592"
##	"-0.35"	"0"	"0.35"	"0.557"
##	"-0.35"	"0"	"0.35"	"0.592"
##	"-0.35"	"5"	"5.83"	"2.374"
##	"-0.35"	"0"	"0.35"	"0.539"
##	"-0.351"	"1"	"1.43"	"1.225"
##	"-0.358"	"6"	"6.93"	"2.595"
##	"-0.36"	"0"	"0.36"	"0.56"
##	"-0.36"	"0"	"0.36"	"0.628"
##	"-0.36"	"1"	"1.36"	"0.99"
##	"-0.36"	"0"	"0.36"	"0.56"
##	"-0.36"	"0"	"0.36"	"0.578"
##	"-0.36"	"0"	"0.36"	"0.578"
##	"-0.366"	"1"	"1.5"	"1.367"
##	"-0.366"	"2"	"2.58"	"1.584"
##	"-0.367"	"1"	"1.44"	"1.2"
##	"-0.37"	"0"	"0.37"	"0.58"
##	"-0.37"	"0"	"0.37"	"0.597"

##	"-0.37"	"0"	"0.37"	"0.63"
##	"-0.37"	"0"	"0.37"	"0.58"
##	"-0.37"	"0"	"0.37"	"0.646"
##	"-0.37"	"0"	"0.37"	"0.58"
##	"-0.37"	"1"	"1.46"	"1.243"
##	"-0.37"	"0"	"0.37"	"0.597"
##	"-0.37"	"0"	"0.37"	"0.614"
##	"-0.37"	"0"	"0.37"	"0.597"
##	"-0.37"	"29"	"30.97"	"5.321"
##	"-0.37"	"0"	"0.37"	"0.544"
##	"-0.375"	"9"	"10.13"	"3.011"
##	"-0.375"	"1"	"1.42"	"1.121"
##	"-0.379"	"2"	"2.56"	"1.479"
##	"-0.38"	"0"	"0.38"	"0.663"
##	"-0.38"	"0"	"0.38"	"0.582"
##	"-0.38"	"0"	"0.38"	"0.678"
##	"-0.38"	"0"	"0.38"	"0.565"
##	"-0.382"	"4"	"4.88"	"2.306"
##	"-0.387"	"1"	"1.43"	"1.112"
##	"-0.387"	"60"	"62.99"	"7.719"
##	"-0.39"	"0"	"0.39"	"0.68"
##	"-0.39"	"0"	"0.39"	"0.618"
##	"-0.39"	"0"	"0.39"	"0.634"
##	"-0.39"	"0"	"0.39"	"0.634"
##	"-0.39"	"0"	"0.39"	"0.584"
##	"-0.39"	"0"	"0.39"	"0.584"
##	"-0.39"	"0"	"0.39"	"0.751"
##	"-0.39"	"0"	"0.39"	"0.567"
##	"-0.393"	"7"	"8.13"	"2.877"
##	"-0.393"	"7"	"8.13"	"2.877"
##	"-0.393"	"7"	"8.13"	"2.877"
##	"-0.393"	"15"	"16.69"	"4.296"
##	"-0.395"	"29"	"31.18"	"5.515"
##	"-0.4"	"0"	"0.4"	"0.62"
##	"-0.4"	"0"	"0.4"	"0.636"
##	"-0.4"	"0"	"0.4"	"0.636"
##	"-0.4"	"0"	"0.4"	"0.62"
##	"-0.4"	"0"	"0.4"	"0.62"
##	"-0.4"	"0"	"0.4"	"0.603"
##	"-0.4"	"0"	"0.4"	"0.532"
##	"-0.4"	"0"	"0.4"	"0.603"
##	"-0.4"	"0"	"0.4"	"0.62"
##	"-0.4"	"0"	"0.4"	"0.62"
##	"-0.4"	"0"	"0.4"	"0.636"
##	"-0.4"	"0"	"0.4"	"0.62"
##	"-0.4"	"0"	"0.4"	"0.636"
##	"-0.4"	"0"	"0.4"	"0.636"
##	"-0.405"	"1577"	"1592.89"	"39.197"
##	"-0.409"	"2"	"2.67"	"1.64"
##	"-0.41"	"0"	"0.41"	"0.668"
##	"-0.41"	"0"	"0.41"	"0.621"
##	"-0.41"	"0"	"0.41"	"0.57"
##	"-0.413"	"1"	"1.5"	"1.21"
##	"-0.417"	"2"	"2.68"	"1.632"

##	"-0.417"	"4"	"4.99"	"2.372"
##	"-0.42"	"9"	"10.45"	"3.451"
##	"-0.42"	"0"	"0.42"	"0.606"
##	"-0.42"	"0"	"0.42"	"0.654"
##	"-0.42"	"0"	"0.42"	"0.638"
##	"-0.42"	"0"	"0.42"	"0.622"
##	"-0.42"	"0"	"0.42"	"0.572"
##	"-0.42"	"5"	"6.01"	"2.406"
##	"-0.42"	"0"	"0.42"	"0.669"
##	"-0.42"	"0"	"0.42"	"0.669"
##	"-0.42"	"0"	"0.42"	"0.669"
##	"-0.42"	"0"	"0.42"	"0.606"
##	"-0.422"	"12"	"13.58"	"3.745"
##	"-0.424"	"1"	"1.44"	"1.038"
##	"-0.426"	"3"	"3.78"	"1.829"
##	"-0.43"	"0"	"0.43"	"0.573"
##	"-0.43"	"0"	"0.43"	"0.685"
##	"-0.43"	"0"	"0.43"	"0.655"
##	"-0.43"	"0"	"0.43"	"0.624"
##	"-0.43"	"0"	"0.43"	"0.685"
##	"-0.43"	"0"	"0.43"	"0.685"
##	"-0.434"	"1"	"1.55"	"1.266"
##	"-0.434"	"5"	"6.06"	"2.44"
##	"-0.436"	"2"	"2.71"	"1.629"
##	"-0.436"	"2"	"2.71"	"1.629"
##	"-0.437"	"1"	"1.55"	"1.258"
##	"-0.439"	"2"	"2.68"	"1.55"
##	"-0.44"	"0"	"0.44"	"0.625"
##	"-0.44"	"0"	"0.44"	"0.686"
##	"-0.44"	"0"	"0.44"	"0.641"
##	"-0.44"	"0"	"0.44"	"0.715"
##	"-0.44"	"1"	"1.54"	"1.226"
##	"-0.44"	"0"	"0.44"	"0.671"
##	"-0.44"	"0"	"0.44"	"0.592"
##	"-0.44"	"0"	"0.44"	"0.701"
##	"-0.44"	"0"	"0.44"	"0.701"
##	"-0.44"	"0"	"0.44"	"0.715"
##	"-0.443"	"1"	"1.54"	"1.218"
##	"-0.446"	"58"	"61.3"	"7.407"
##	"-0.448"	"3"	"3.85"	"1.898"
##	"-0.45"	"0"	"0.45"	"0.609"
##	"-0.45"	"0"	"0.45"	"0.626"
##	"-0.45"	"0"	"0.45"	"0.687"
##	"-0.45"	"0"	"0.45"	"0.592"
##	"-0.45"	"0"	"0.45"	"0.592"
##	"-0.45"	"0"	"0.45"	"0.672"
##	"-0.452"	"1"	"1.55"	"1.218"
##	"-0.454"	"5"	"6.19"	"2.62"
##	"-0.458"	"3"	"3.89"	"1.943"
##	"-0.46"	"0"	"0.46"	"0.673"
##	"-0.46"	"0"	"0.46"	"0.593"
##	"-0.46"	"0"	"0.46"	"0.673"
##	"-0.46"	"0"	"0.46"	"0.731"
##	"-0.46"	"0"	"0.46"	"0.717"

##	"-0.46"	"0"	"0.46"	"0.673"
##	"-0.46"	"0"	"0.46"	"0.758"
##	"-0.46"	"0"	"0.46"	"0.758"
##	"-0.46"	"0"	"0.46"	"0.758"
##	"-0.46"	"0"	"0.46"	"0.658"
##	"-0.46"	"0"	"0.46"	"0.642"
##	"-0.46"	"0"	"0.46"	"0.658"
##	"-0.462"	"1"	"1.58"	"1.257"
##	"-0.463"	"75"	"79.09"	"8.84"
##	"-0.465"	"18"	"20.13"	"4.576"
##	"-0.467"	"10"	"11.59"	"3.403"
##	"-0.469"	"19"	"21.04"	"4.353"
##	"-0.469"	"22"	"24.67"	"5.689"
##	"-0.47"	"0"	"0.47"	"0.594"
##	"-0.47"	"0"	"0.47"	"0.731"
##	"-0.47"	"0"	"0.47"	"0.658"
##	"-0.47"	"0"	"0.47"	"0.688"
##	"-0.47"	"0"	"0.47"	"0.627"
##	"-0.47"	"0"	"0.47"	"0.658"
##	"-0.47"	"0"	"0.47"	"0.674"
##	"-0.47"	"0"	"0.47"	"0.731"
##	"-0.47"	"0"	"0.47"	"0.784"
##	"-0.47"	"0"	"0.47"	"0.703"
##	"-0.47"	"0"	"0.47"	"0.658"
##	"-0.47"	"0"	"0.47"	"0.717"
##	"-0.47"	"0"	"0.47"	"0.703"
##	"-0.472"	"13"	"14.64"	"3.474"
##	"-0.474"	"8"	"9.49"	"3.141"
##	"-0.474"	"8"	"9.49"	"3.141"
##	"-0.476"	"85"	"89.57"	"9.592"
##	"-0.476"	"1"	"1.64"	"1.345"
##	"-0.477"	"2"	"2.84"	"1.762"
##	"-0.48"	"0"	"0.48"	"0.745"
##	"-0.48"	"0"	"0.48"	"0.745"
##	"-0.48"	"0"	"0.48"	"0.745"
##	"-0.48"	"0"	"0.48"	"0.745"
##	"-0.48"	"0"	"0.48"	"0.674"
##	"-0.48"	"0"	"0.48"	"0.745"
##	"-0.48"	"0"	"0.48"	"0.659"
##	"-0.48"	"0"	"0.48"	"0.611"
##	"-0.48"	"0"	"0.48"	"0.797"
##	"-0.48"	"0"	"0.48"	"0.659"
##	"-0.481"	"1"	"1.6"	"1.247"
##	"-0.482"	"1"	"1.57"	"1.183"
##	"-0.484"	"1"	"1.58"	"1.199"
##	"-0.484"	"1"	"1.58"	"1.199"
##	"-0.49"	"0"	"0.49"	"0.703"
##	"-0.49"	"0"	"0.49"	"0.674"
##	"-0.49"	"0"	"0.49"	"0.689"
##	"-0.49"	"0"	"0.49"	"0.674"
##	"-0.49"	"0"	"0.49"	"0.703"
##	"-0.49"	"0"	"0.49"	"0.689"
##	"-0.49"	"0"	"0.49"	"0.628"
##	"-0.49"	"0"	"0.49"	"0.732"

##	"-0.49"	"0"	"0.49"	"0.759"
##	"-0.49"	"0"	"0.49"	"0.689"
##	"-0.49"	"0"	"0.49"	"0.703"
##	"-0.49"	"0"	"0.49"	"0.643"
##	"-0.49"	"4"	"4.92"	"1.879"
##	"-0.49"	"0"	"0.49"	"0.643"
##	"-0.495"	"1"	"1.56"	"1.131"
##	"-0.5"	"0"	"0.5"	"0.659"
##	"-0.5"	"0"	"0.5"	"0.689"
##	"-0.5"	"0"	"0.5"	"0.704"
##	"-0.5"	"0"	"0.5"	"0.798"
##	"-0.5"	"0"	"0.5"	"0.704"
##	"-0.5"	"0"	"0.5"	"0.745"
##	"-0.5"	"0"	"0.5"	"0.704"
##	"-0.5"	"0"	"0.5"	"0.644"
##	"-0.5"	"0"	"0.5"	"0.644"
##	"-0.5"	"0"	"0.5"	"0.689"
##	"-0.503"	"87"	"91.68"	"9.299"
##	"-0.503"	"6"	"7.44"	"2.865"
##	"-0.505"	"2"	"2.89"	"1.763"
##	"-0.505"	"2"	"2.89"	"1.763"
##	"-0.508"	"78"	"82.67"	"9.193"
##	"-0.51"	"0"	"0.51"	"0.628"
##	"-0.51"	"0"	"0.51"	"0.703"
##	"-0.51"	"0"	"0.51"	"0.745"
##	"-0.51"	"0"	"0.51"	"0.732"
##	"-0.51"	"0"	"0.51"	"0.674"
##	"-0.51"	"0"	"0.51"	"0.759"
##	"-0.51"	"0"	"0.51"	"0.689"
##	"-0.51"	"0"	"0.51"	"0.759"
##	"-0.51"	"0"	"0.51"	"0.659"
##	"-0.51"	"0"	"0.51"	"0.659"
##	"-0.511"	"109"	"113.95"	"9.686"
##	"-0.515"	"1"	"1.55"	"1.067"
##	"-0.517"	"6"	"7.24"	"2.4"
##	"-0.52"	"0"	"0.52"	"0.703"
##	"-0.52"	"1"	"1.67"	"1.288"
##	"-0.52"	"0"	"0.52"	"0.659"
##	"-0.52"	"0"	"0.52"	"0.731"
##	"-0.52"	"0"	"0.52"	"0.785"
##	"-0.52"	"0"	"0.52"	"0.674"
##	"-0.52"	"0"	"0.52"	"0.759"
##	"-0.52"	"0"	"0.52"	"0.717"
##	"-0.52"	"0"	"0.52"	"0.689"
##	"-0.52"	"0"	"0.52"	"0.797"
##	"-0.52"	"0"	"0.52"	"0.689"
##	"-0.52"	"0"	"0.52"	"0.797"
##	"-0.52"	"0"	"0.52"	"0.717"
##	"-0.523"	"1"	"1.65"	"1.242"
##	"-0.523"	"3"	"4.12"	"2.143"
##	"-0.525"	"3"	"4.04"	"1.979"
##	"-0.527"	"3"	"4.11"	"2.108"
##	"-0.529"	"1"	"1.71"	"1.343"
##	"-0.529"	"6"	"7.44"	"2.72"

##	"-0.53"	"0"	"0.53"	"0.745"
##	"-0.53"	"0"	"0.53"	"0.674"
##	"-0.53"	"0"	"0.53"	"0.703"
##	"-0.532"	"10"	"11.78"	"3.344"
##	"-0.533"	"1"	"1.7"	"1.314"
##	"-0.537"	"1"	"1.76"	"1.415"
##	"-0.54"	"0"	"0.54"	"0.717"
##	"-0.54"	"0"	"0.54"	"0.702"
##	"-0.54"	"0"	"0.54"	"0.809"
##	"-0.54"	"0"	"0.54"	"0.784"
##	"-0.54"	"0"	"0.54"	"0.797"
##	"-0.54"	"0"	"0.54"	"0.717"
##	"-0.54"	"0"	"0.54"	"0.797"
##	"-0.54"	"0"	"0.54"	"0.717"
##	"-0.54"	"0"	"0.54"	"0.784"
##	"-0.545"	"9"	"10.76"	"3.232"
##	"-0.548"	"139"	"145.33"	"11.542"
##	"-0.55"	"0"	"0.55"	"0.744"
##	"-0.55"	"0"	"0.55"	"0.702"
##	"-0.55"	"0"	"0.55"	"0.702"
##	"-0.55"	"0"	"0.55"	"0.857"
##	"-0.55"	"0"	"0.55"	"0.716"
##	"-0.55"	"0"	"0.55"	"0.672"
##	"-0.55"	"0"	"0.55"	"0.783"
##	"-0.55"	"0"	"0.55"	"0.845"
##	"-0.554"	"3"	"4.13"	"2.038"
##	"-0.557"	"5"	"6.4"	"2.515"
##	"-0.558"	"9"	"11.08"	"3.725"
##	"-0.56"	"0"	"0.56"	"0.686"
##	"-0.56"	"0"	"0.56"	"0.77"
##	"-0.56"	"0"	"0.56"	"0.857"
##	"-0.56"	"0"	"0.56"	"0.808"
##	"-0.56"	"0"	"0.56"	"0.686"
##	"-0.56"	"0"	"0.56"	"0.77"
##	"-0.56"	"0"	"0.56"	"0.686"
##	"-0.56"	"0"	"0.56"	"0.77"
##	"-0.561"	"1"	"1.73"	"1.302"
##	"-0.561"	"1"	"1.73"	"1.302"
##	"-0.563"	"34"	"37.64"	"6.471"
##	"-0.564"	"31"	"34.47"	"6.149"
##	"-0.566"	"10"	"11.98"	"3.499"
##	"-0.57"	"0"	"0.57"	"0.782"
##	"-0.57"	"0"	"0.57"	"0.868"
##	"-0.572"	"1"	"1.87"	"1.522"
##	"-0.579"	"6"	"7.61"	"2.781"
##	"-0.58"	"0"	"0.58"	"0.831"
##	"-0.58"	"0"	"0.58"	"0.794"
##	"-0.58"	"0"	"0.58"	"0.806"
##	"-0.58"	"0"	"0.58"	"0.755"
##	"-0.58"	"0"	"0.58"	"0.831"
##	"-0.58"	"0"	"0.58"	"0.768"
##	"-0.58"	"0"	"0.58"	"0.684"
##	"-0.58"	"0"	"0.58"	"0.684"
##	"-0.588"	"4"	"5.37"	"2.33"

##	"-0.59"	"0"	"0.59"	"0.753"
##	"-0.59"	"0"	"0.59"	"0.866"
##	"-0.59"	"0"	"0.59"	"0.793"
##	"-0.59"	"0"	"0.59"	"0.793"
##	"-0.59"	"0"	"0.59"	"0.793"
##	"-0.59"	"0"	"0.59"	"0.726"
##	"-0.59"	"0"	"0.59"	"0.78"
##	"-0.59"	"0"	"0.59"	"0.712"
##	"-0.59"	"0"	"0.59"	"0.793"
##	"-0.593"	"5"	"6.31"	"2.21"
##	"-0.593"	"5"	"6.31"	"2.21"
##	"-0.599"	"15"	"17.45"	"4.091"
##	"-0.599"	"1"	"1.77"	"1.286"
##	"-0.6"	"0"	"0.6"	"0.778"
##	"-0.6"	"0"	"0.6"	"0.804"
##	"-0.6"	"0"	"0.6"	"0.778"
##	"-0.6"	"0"	"0.6"	"0.804"
##	"-0.6"	"0"	"0.6"	"0.696"
##	"-0.6"	"0"	"0.6"	"0.739"
##	"-0.6"	"0"	"0.6"	"0.739"
##	"-0.6"	"0"	"0.6"	"0.696"
##	"-0.6"	"0"	"0.6"	"0.696"
##	"-0.601"	"16"	"18.4"	"3.995"
##	"-0.601"	"1"	"1.99"	"1.648"
##	"-0.604"	"120"	"126.92"	"11.463"
##	"-0.608"	"2"	"3.07"	"1.76"
##	"-0.61"	"0"	"0.61"	"0.803"
##	"-0.61"	"0"	"0.61"	"0.764"
##	"-0.61"	"0"	"0.61"	"0.777"
##	"-0.611"	"69"	"74.67"	"9.287"
##	"-0.611"	"3"	"4.2"	"1.964"
##	"-0.613"	"11"	"12.77"	"2.888"
##	"-0.615"	"161"	"169.33"	"13.538"
##	"-0.617"	"1"	"1.82"	"1.329"
##	"-0.618"	"63"	"68.61"	"9.078"
##	"-0.62"	"0"	"0.62"	"0.763"
##	"-0.62"	"0"	"0.62"	"0.763"
##	"-0.62"	"0"	"0.62"	"0.814"
##	"-0.62"	"0"	"0.62"	"0.776"
##	"-0.62"	"0"	"0.62"	"0.736"
##	"-0.62"	"1"	"1.74"	"1.194"
##	"-0.62"	"0"	"0.62"	"0.763"
##	"-0.62"	"0"	"0.62"	"0.736"
##	"-0.62"	"0"	"0.62"	"0.736"
##	"-0.62"	"0"	"0.62"	"0.736"
##	"-0.622"	"5"	"6.56"	"2.508"
##	"-0.623"	"0"	"0.63"	"1.012"
##	"-0.624"	"1"	"1.86"	"1.378"
##	"-0.626"	"1"	"1.93"	"1.486"
##	"-0.626"	"1"	"1.93"	"1.486"
##	"-0.626"	"52"	"56.78"	"7.63"
##	"-0.629"	"10"	"12.08"	"3.308"
##	"-0.63"	"0"	"0.63"	"0.734"
##	"-0.63"	"0"	"0.63"	"0.774"

##	"-0.63"	"0"	"0.63"	"0.72"
##	"-0.631"	"1"	"1.78"	"1.236"
##	"-0.631"	"1"	"1.78"	"1.236"
##	"-0.635"	"6"	"7.73"	"2.726"
##	"-0.637"	"22"	"25.29"	"5.163"
##	"-0.638"	"1"	"1.81"	"1.269"
##	"-0.64"	"0"	"0.64"	"0.811"
##	"-0.64"	"0"	"0.64"	"0.704"
##	"-0.64"	"1"	"1.94"	"1.469"
##	"-0.64"	"0"	"0.64"	"0.835"
##	"-0.64"	"0"	"0.64"	"0.871"
##	"-0.641"	"2"	"3.32"	"2.059"
##	"-0.642"	"3"	"4.47"	"2.289"
##	"-0.645"	"1"	"1.92"	"1.426"
##	"-0.645"	"1"	"1.92"	"1.426"
##	"-0.646"	"209"	"219.11"	"15.642"
##	"-0.648"	"12"	"14.15"	"3.319"
##	"-0.649"	"1"	"1.83"	"1.28"
##	"-0.65"	"0"	"0.65"	"0.809"
##	"-0.65"	"0"	"0.65"	"0.821"
##	"-0.65"	"0"	"0.65"	"0.796"
##	"-0.65"	"0"	"0.65"	"0.869"
##	"-0.65"	"0"	"0.65"	"0.821"
##	"-0.65"	"0"	"0.65"	"0.809"
##	"-0.65"	"0"	"0.65"	"0.77"
##	"-0.65"	"0"	"0.65"	"0.77"
##	"-0.66"	"0"	"0.66"	"0.89"
##	"-0.66"	"0"	"0.66"	"0.742"
##	"-0.663"	"2"	"3.26"	"1.9"
##	"-0.663"	"11"	"13.3"	"3.468"
##	"-0.667"	"1"	"1.95"	"1.424"
##	"-0.669"	"98"	"104.36"	"9.51"
##	"-0.673"	"1"	"1.98"	"1.456"
##	"-0.677"	"4"	"5.55"	"2.289"
##	"-0.68"	"0"	"0.68"	"0.803"
##	"-0.68"	"0"	"0.68"	"0.815"
##	"-0.68"	"1"	"2.12"	"1.647"
##	"-0.68"	"0"	"0.68"	"0.803"
##	"-0.68"	"0"	"0.68"	"0.764"
##	"-0.68"	"0"	"0.68"	"0.777"
##	"-0.68"	"0"	"0.68"	"0.803"
##	"-0.68"	"0"	"0.68"	"0.803"
##	"-0.68"	"0"	"0.68"	"0.764"
##	"-0.682"	"13"	"15.67"	"3.916"
##	"-0.682"	"13"	"15.67"	"3.916"
##	"-0.688"	"1"	"1.84"	"1.22"
##	"-0.69"	"0"	"0.69"	"0.837"
##	"-0.69"	"0"	"0.69"	"0.837"
##	"-0.69"	"0"	"0.69"	"0.837"
##	"-0.69"	"0"	"0.69"	"0.94"
##	"-0.69"	"0"	"0.69"	"0.907"
##	"-0.69"	"0"	"0.69"	"0.825"
##	"-0.69"	"0"	"0.69"	"0.734"
##	"-0.69"	"0"	"0.69"	"0.775"

##	"-0.69"	"0"	"0.69"	"0.837"
##	"-0.69"	"0"	"0.69"	"0.787"
##	"-0.69"	"0"	"0.69"	"0.787"
##	"-0.69"	"0"	"0.69"	"0.813"
##	"-0.69"	"0"	"0.69"	"0.884"
##	"-0.698"	"5"	"6.84"	"2.635"
##	"-0.7"	"0"	"0.7"	"0.718"
##	"-0.7"	"0"	"0.7"	"0.859"
##	"-0.704"	"12"	"14.88"	"4.093"
##	"-0.705"	"165"	"173.76"	"12.417"
##	"-0.706"	"2"	"3.34"	"1.897"
##	"-0.71"	"0"	"0.71"	"0.82"
##	"-0.71"	"0"	"0.71"	"0.795"
##	"-0.71"	"0"	"0.71"	"0.743"
##	"-0.71"	"0"	"0.71"	"0.891"
##	"-0.71"	"0"	"0.71"	"0.891"
##	"-0.71"	"0"	"0.71"	"0.891"
##	"-0.72"	"0"	"0.72"	"0.792"
##	"-0.72"	"0"	"0.72"	"0.792"
##	"-0.72"	"0"	"0.72"	"0.792"
##	"-0.72"	"0"	"0.72"	"0.792"
##	"-0.72"	"0"	"0.72"	"0.911"
##	"-0.72"	"0"	"0.72"	"0.877"
##	"-0.72"	"0"	"0.72"	"0.866"
##	"-0.72"	"0"	"0.72"	"0.866"
##	"-0.72"	"0"	"0.72"	"0.866"
##	"-0.72"	"0"	"0.72"	"0.866"
##	"-0.72"	"0"	"0.72"	"0.792"
##	"-0.72"	"0"	"0.72"	"0.792"
##	"-0.72"	"0"	"0.72"	"0.766"
##	"-0.721"	"2"	"3.41"	"1.955"
##	"-0.722"	"2"	"3.25"	"1.731"
##	"-0.722"	"2"	"3.3"	"1.801"
##	"-0.728"	"1"	"2.06"	"1.455"
##	"-0.728"	"2"	"3.32"	"1.814"
##	"-0.73"	"0"	"0.73"	"0.874"
##	"-0.73"	"0"	"0.73"	"0.863"
##	"-0.73"	"0"	"0.73"	"0.863"
##	"-0.73"	"0"	"0.73"	"0.93"
##	"-0.733"	"10"	"12.38"	"3.247"
##	"-0.736"	"2"	"3.34"	"1.821"
##	"-0.738"	"1"	"2.09"	"1.478"
##	"-0.74"	"0"	"0.74"	"0.848"
##	"-0.74"	"2"	"3.25"	"1.69"
##	"-0.74"	"0"	"0.74"	"0.848"
##	"-0.744"	"1"	"2.02"	"1.371"
##	"-0.744"	"1"	"2.15"	"1.546"
##	"-0.748"	"1"	"2.02"	"1.363"
##	"-0.75"	"0"	"0.75"	"0.968"
##	"-0.75"	"0"	"0.75"	"0.821"
##	"-0.75"	"0"	"0.75"	"0.796"
##	"-0.75"	"1"	"2.03"	"1.374"
##	"-0.75"	"0"	"0.75"	"0.925"
##	"-0.75"	"0"	"0.75"	"0.936"

##	"-0.75"	"0"	"0.75"	"0.821"
##	"-0.75"	"0"	"0.75"	"0.796"
##	"-0.75"	"0"	"0.75"	"0.914"
##	"-0.751"	"4"	"5.68"	"2.238"
##	"-0.76"	"0"	"0.76"	"0.889"
##	"-0.76"	"0"	"0.76"	"0.818"
##	"-0.76"	"0"	"0.76"	"0.83"
##	"-0.76"	"6"	"8.14"	"2.814"
##	"-0.76"	"0"	"0.76"	"0.83"
##	"-0.76"	"0"	"0.76"	"0.866"
##	"-0.76"	"0"	"0.76"	"0.866"
##	"-0.76"	"0"	"0.76"	"0.878"
##	"-0.76"	"0"	"0.76"	"0.878"
##	"-0.76"	"0"	"0.76"	"0.878"
##	"-0.761"	"10"	"12.7"	"3.546"
##	"-0.763"	"28"	"31.86"	"5.061"
##	"-0.767"	"75"	"82.09"	"9.25"
##	"-0.768"	"1"	"2.14"	"1.484"
##	"-0.768"	"1"	"2.23"	"1.601"
##	"-0.769"	"4"	"5.74"	"2.264"
##	"-0.77"	"0"	"0.77"	"0.839"
##	"-0.77"	"0"	"0.77"	"0.815"
##	"-0.77"	"0"	"0.77"	"0.851"
##	"-0.77"	"0"	"0.77"	"0.851"
##	"-0.771"	"1"	"2.03"	"1.337"
##	"-0.777"	"1"	"2.29"	"1.659"
##	"-0.779"	"3"	"4.8"	"2.309"
##	"-0.779"	"3"	"4.56"	"2.002"
##	"-0.78"	"0"	"0.78"	"0.848"
##	"-0.78"	"0"	"0.78"	"0.894"
##	"-0.78"	"0"	"0.78"	"0.836"
##	"-0.789"	"1"	"2.04"	"1.317"
##	"-0.789"	"1"	"2.11"	"1.406"
##	"-0.79"	"0"	"0.79"	"0.902"
##	"-0.79"	"11"	"14.05"	"3.862"
##	"-0.79"	"0"	"0.79"	"0.967"
##	"-0.79"	"0"	"0.79"	"0.795"
##	"-0.79"	"0"	"0.79"	"0.924"
##	"-0.79"	"0"	"0.79"	"0.924"
##	"-0.79"	"11"	"14.05"	"3.862"
##	"-0.798"	"1"	"2.22"	"1.528"
##	"-0.798"	"1"	"2.22"	"1.528"
##	"-0.798"	"1"	"2.22"	"1.528"
##	"-0.799"	"2"	"3.47"	"1.839"
##	"-0.8"	"2"	"3.52"	"1.899"
##	"-0.8"	"0"	"0.8"	"0.791"
##	"-0.8"	"0"	"0.8"	"0.974"
##	"-0.8"	"0"	"0.8"	"0.974"
##	"-0.8"	"0"	"0.8"	"0.974"
##	"-0.804"	"92"	"99.91"	"9.839"
##	"-0.805"	"0"	"0.82"	"1.019"
##	"-0.806"	"13"	"16.16"	"3.923"
##	"-0.81"	"0"	"0.81"	"0.918"
##	"-0.81"	"0"	"0.81"	"0.918"

##	"-0.81"	"0"	"0.81"	"0.95"
##	"-0.81"	"0"	"0.81"	"0.918"
##	"-0.812"	"56"	"62.16"	"7.582"
##	"-0.812"	"1"	"2.2"	"1.477"
##	"-0.813"	"1"	"2.45"	"1.783"
##	"-0.813"	"1"	"2.18"	"1.452"
##	"-0.815"	"2"	"3.38"	"1.692"
##	"-0.82"	"0"	"0.82"	"0.978"
##	"-0.82"	"0"	"0.82"	"0.999"
##	"-0.82"	"0"	"0.82"	"0.869"
##	"-0.82"	"0"	"0.82"	"0.989"
##	"-0.823"	"5"	"7.02"	"2.454"
##	"-0.823"	"19"	"23.07"	"4.945"
##	"-0.83"	"0"	"0.83"	"0.922"
##	"-0.83"	"0"	"0.83"	"0.817"
##	"-0.83"	"0"	"0.83"	"0.817"
##	"-0.83"	"0"	"0.83"	"0.922"
##	"-0.83"	"0"	"0.83"	"0.911"
##	"-0.839"	"14"	"17.38"	"4.027"
##	"-0.839"	"0"	"0.86"	"1.025"
##	"-0.84"	"0"	"0.84"	"0.884"
##	"-0.84"	"0"	"0.84"	"0.982"
##	"-0.84"	"0"	"0.84"	"0.849"
##	"-0.843"	"1"	"2.38"	"1.638"
##	"-0.843"	"1"	"2.38"	"1.638"
##	"-0.845"	"1"	"2.06"	"1.254"
##	"-0.85"	"0"	"0.85"	"0.936"
##	"-0.85"	"0"	"0.85"	"0.925"
##	"-0.85"	"0"	"0.85"	"0.892"
##	"-0.85"	"0"	"0.85"	"0.947"
##	"-0.85"	"0"	"0.85"	"0.968"
##	"-0.85"	"0"	"0.85"	"0.845"
##	"-0.85"	"0"	"0.85"	"0.989"
##	"-0.85"	"0"	"0.85"	"0.968"
##	"-0.85"	"1"	"2.14"	"1.341"
##	"-0.85"	"0"	"0.85"	"0.989"
##	"-0.85"	"1"	"2.14"	"1.341"
##	"-0.85"	"1"	"2.14"	"1.341"
##	"-0.857"	"1"	"2.2"	"1.4"
##	"-0.86"	"0"	"0.86"	"0.876"
##	"-0.86"	"0"	"0.86"	"0.921"
##	"-0.86"	"0"	"0.86"	"0.932"
##	"-0.86"	"0"	"0.86"	"0.921"
##	"-0.86"	"0"	"0.86"	"0.921"
##	"-0.86"	"0"	"0.86"	"0.964"
##	"-0.862"	"28"	"32.47"	"5.184"
##	"-0.867"	"16"	"19.58"	"4.13"
##	"-0.869"	"0"	"0.87"	"1.002"
##	"-0.869"	"0"	"0.87"	"1.002"
##	"-0.869"	"0"	"0.87"	"1.002"
##	"-0.87"	"0"	"0.87"	"0.872"
##	"-0.87"	"0"	"0.87"	"0.95"
##	"-0.87"	"0"	"0.87"	"0.837"
##	"-0.87"	"0"	"0.87"	"0.971"

##	"-0.878"	"0"	"0.89"	"1.014"
##	"-0.88"	"0"	"0.88"	"0.977"
##	"-0.88"	"0"	"0.88"	"0.998"
##	"-0.883"	"23"	"27.75"	"5.381"
##	"-0.886"	"0"	"0.89"	"1.004"
##	"-0.886"	"0"	"0.89"	"1.004"
##	"-0.89"	"53"	"59.98"	"7.844"
##	"-0.89"	"0"	"0.89"	"0.886"
##	"-0.89"	"0"	"0.89"	"0.92"
##	"-0.891"	"3"	"4.76"	"1.975"
##	"-0.893"	"1"	"2.42"	"1.59"
##	"-0.894"	"14"	"17.98"	"4.452"
##	"-0.895"	"2"	"3.88"	"2.1"
##	"-0.895"	"1"	"2.38"	"1.543"
##	"-0.897"	"1"	"2.26"	"1.404"
##	"-0.9"	"0"	"0.9"	"0.948"
##	"-0.9"	"0"	"0.9"	"0.859"
##	"-0.9"	"0"	"0.9"	"0.905"
##	"-0.9"	"0"	"0.9"	"0.969"
##	"-0.903"	"2"	"3.81"	"2.004"
##	"-0.903"	"0"	"0.96"	"1.063"
##	"-0.905"	"0"	"0.93"	"1.027"
##	"-0.91"	"0"	"0.91"	"0.954"
##	"-0.911"	"2"	"3.82"	"1.997"
##	"-0.919"	"0"	"0.94"	"1.023"
##	"-0.92"	"0"	"0.92"	"0.895"
##	"-0.92"	"0"	"0.92"	"0.939"
##	"-0.92"	"0"	"0.92"	"0.939"
##	"-0.92"	"0"	"0.92"	"0.939"
##	"-0.93"	"0"	"0.93"	"0.924"
##	"-0.93"	"0"	"0.93"	"0.795"
##	"-0.93"	"0"	"0.93"	"0.902"
##	"-0.93"	"1"	"2.56"	"1.678"
##	"-0.93"	"0"	"0.93"	"0.879"
##	"-0.933"	"1"	"2.52"	"1.63"
##	"-0.934"	"0"	"1.06"	"1.135"
##	"-0.935"	"10"	"13.49"	"3.732"
##	"-0.943"	"13"	"16.66"	"3.88"
##	"-0.944"	"2"	"3.65"	"1.749"
##	"-0.944"	"2"	"3.65"	"1.749"
##	"-0.946"	"0"	"1.13"	"1.195"
##	"-0.947"	"0"	"1.07"	"1.13"
##	"-0.95"	"1"	"2.36"	"1.432"
##	"-0.95"	"1"	"2.57"	"1.653"
##	"-0.95"	"0"	"0.95"	"0.925"
##	"-0.95"	"0"	"0.95"	"0.833"
##	"-0.954"	"0"	"1.07"	"1.121"
##	"-0.956"	"3"	"5.15"	"2.249"
##	"-0.959"	"0"	"1.14"	"1.189"
##	"-0.96"	"0"	"0.96"	"0.875"
##	"-0.96"	"0"	"0.96"	"0.974"
##	"-0.96"	"0"	"0.96"	"0.875"
##	"-0.96"	"0"	"0.96"	"0.963"
##	"-0.963"	"0"	"1.01"	"1.049"

##	"-0.963"	"1"	"2.65"	"1.714"
##	"-0.963"	"1"	"2.65"	"1.714"
##	"-0.964"	"2"	"3.82"	"1.888"
##	"-0.965"	"2"	"4.1"	"2.177"
##	"-0.969"	"0"	"1.39"	"1.435"
##	"-0.97"	"0"	"0.97"	"0.915"
##	"-0.97"	"0"	"0.97"	"0.958"
##	"-0.97"	"0"	"0.97"	"0.958"
##	"-0.97"	"0"	"0.97"	"0.969"
##	"-0.97"	"0"	"0.97"	"0.958"
##	"-0.97"	"0"	"0.97"	"0.915"
##	"-0.975"	"0"	"1.12"	"1.148"
##	"-0.975"	"0"	"1.05"	"1.077"
##	"-0.975"	"0"	"1.05"	"1.077"
##	"-0.975"	"0"	"1.05"	"1.077"
##	"-0.975"	"0"	"1.05"	"1.077"
##	"-0.98"	"0"	"0.98"	"0.91"
##	"-0.98"	"0"	"0.98"	"0.921"
##	"-0.984"	"3"	"4.93"	"1.96"
##	"-0.985"	"1"	"2.53"	"1.553"
##	"-0.985"	"2"	"4.17"	"2.202"
##	"-0.987"	"1"	"2.44"	"1.459"
##	"-0.987"	"0"	"1.1"	"1.115"
##	"-0.987"	"4"	"5.87"	"1.894"
##	"-0.989"	"0"	"1.13"	"1.143"
##	"-0.99"	"0"	"0.99"	"0.959"
##	"-0.99"	"0"	"0.99"	"0.99"
##	"-0.992"	"13"	"17.39"	"4.426"
##	"-0.993"	"9"	"12.78"	"3.805"
##	"-0.993"	"0"	"1.05"	"1.058"
##	"-0.995"	"1"	"2.5"	"1.508"
##	"-0.999"	"5"	"7.83"	"2.832"
##	"-1"	"0"	"1"	"0.953"
##	"-1"	"6"	"9.15"	"3.151"
##	"-1"	"0"	"1"	"0.964"
##	"-1.002"	"0"	"1.05"	"1.048"
##	"-1.005"	"1"	"2.46"	"1.452"
##	"-1.007"	"1"	"2.41"	"1.401"
##	"-1.009"	"0"	"1.33"	"1.319"
##	"-1.01"	"0"	"1.03"	"1.02"
##	"-1.01"	"0"	"1.01"	"0.948"
##	"-1.01"	"0"	"1.01"	"0.859"
##	"-1.01"	"0"	"1.01"	"0.859"
##	"-1.013"	"0"	"1.17"	"1.155"
##	"-1.02"	"19"	"24.77"	"5.655"
##	"-1.02"	"0"	"1.02"	"0.953"
##	"-1.02"	"0"	"1.03"	"1.01"
##	"-1.021"	"0"	"1.1"	"1.078"
##	"-1.021"	"101"	"110.59"	"9.397"
##	"-1.023"	"18"	"22.76"	"4.654"
##	"-1.025"	"0"	"1.04"	"1.014"
##	"-1.025"	"0"	"1.04"	"1.014"
##	"-1.028"	"0"	"1.08"	"1.051"
##	"-1.03"	"0"	"1.03"	"0.989"

##	"-1.03"	"0"	"1.03"	"0.989"
##	"-1.03"	"0"	"1.03"	"0.989"
##	"-1.035"	"0"	"1.11"	"1.072"
##	"-1.037"	"0"	"1.08"	"1.041"
##	"-1.037"	"0"	"1.17"	"1.129"
##	"-1.037"	"0"	"1.17"	"1.129"
##	"-1.037"	"0"	"1.08"	"1.041"
##	"-1.038"	"1"	"2.94"	"1.869"
##	"-1.039"	"1"	"2.99"	"1.915"
##	"-1.04"	"0"	"1.04"	"0.984"
##	"-1.04"	"0"	"1.04"	"0.942"
##	"-1.041"	"0"	"1.07"	"1.027"
##	"-1.041"	"0"	"1.25"	"1.201"
##	"-1.042"	"6"	"8.49"	"2.389"
##	"-1.043"	"11"	"14.99"	"3.826"
##	"-1.046"	"0"	"1.34"	"1.281"
##	"-1.047"	"0"	"1.27"	"1.213"
##	"-1.05"	"0"	"1.05"	"0.869"
##	"-1.052"	"1"	"2.9"	"1.806"
##	"-1.055"	"3"	"5.13"	"2.018"
##	"-1.059"	"0"	"1.33"	"1.256"
##	"-1.059"	"4"	"6.86"	"2.701"
##	"-1.06"	"0"	"1.06"	"0.983"
##	"-1.062"	"0"	"1.14"	"1.073"
##	"-1.062"	"0"	"1.17"	"1.101"
##	"-1.062"	"0"	"1.17"	"1.101"
##	"-1.063"	"1"	"2.79"	"1.684"
##	"-1.063"	"3"	"5.68"	"2.522"
##	"-1.064"	"7"	"10.11"	"2.923"
##	"-1.065"	"0"	"1.24"	"1.164"
##	"-1.07"	"10"	"13.92"	"3.664"
##	"-1.07"	"0"	"1.07"	"0.987"
##	"-1.07"	"0"	"1.07"	"0.913"
##	"-1.072"	"1"	"2.7"	"1.586"
##	"-1.074"	"0"	"1.31"	"1.22"
##	"-1.075"	"0"	"1.29"	"1.2"
##	"-1.076"	"0"	"1.28"	"1.19"
##	"-1.077"	"0"	"1.27"	"1.179"
##	"-1.078"	"0"	"1.15"	"1.067"
##	"-1.081"	"3"	"5.28"	"2.109"
##	"-1.084"	"0"	"1.09"	"1.006"
##	"-1.087"	"0"	"1.35"	"1.242"
##	"-1.087"	"0"	"1.51"	"1.389"
##	"-1.088"	"18"	"22.96"	"4.557"
##	"-1.089"	"0"	"1.1"	"1.01"
##	"-1.089"	"0"	"1.1"	"1.01"
##	"-1.089"	"0"	"1.1"	"1.01"
##	"-1.089"	"0"	"1.1"	"1.01"
##	"-1.089"	"0"	"1.31"	"1.203"
##	"-1.09"	"0"	"1.2"	"1.101"
##	"-1.09"	"0"	"1.2"	"1.101"
##	"-1.091"	"1"	"2.85"	"1.696"
##	"-1.093"	"35"	"42.15"	"6.542"
##	"-1.094"	"1"	"2.58"	"1.444"

##	"-1.095"	"0"	"1.33"	"1.215"
##	"-1.096"	"0"	"1.13"	"1.031"
##	"-1.1"	"0"	"1.1"	"0.916"
##	"-1.1"	"2"	"4.24"	"2.036"
##	"-1.1"	"2"	"4.24"	"2.036"
##	"-1.101"	"0"	"1.27"	"1.153"
##	"-1.106"	"1"	"2.71"	"1.546"
##	"-1.107"	"1"	"2.66"	"1.499"
##	"-1.108"	"17"	"22.09"	"4.595"
##	"-1.109"	"0"	"1.5"	"1.352"
##	"-1.109"	"0"	"1.2"	"1.082"
##	"-1.11"	"0"	"1.44"	"1.297"
##	"-1.115"	"0"	"1.21"	"1.085"
##	"-1.115"	"0"	"1.38"	"1.237"
##	"-1.116"	"65"	"75.21"	"9.149"
##	"-1.116"	"0"	"1.37"	"1.228"
##	"-1.116"	"0"	"1.36"	"1.219"
##	"-1.117"	"0"	"1.13"	"1.012"
##	"-1.117"	"0"	"1.13"	"1.012"
##	"-1.117"	"7"	"10.41"	"3.052"
##	"-1.118"	"0"	"1.15"	"1.029"
##	"-1.118"	"2"	"4.05"	"1.833"
##	"-1.119"	"0"	"1.23"	"1.1"
##	"-1.12"	"0"	"1.12"	"0.868"
##	"-1.122"	"192"	"206.96"	"13.333"
##	"-1.123"	"0"	"1.42"	"1.265"
##	"-1.123"	"0"	"1.25"	"1.114"
##	"-1.126"	"0"	"1.18"	"1.048"
##	"-1.126"	"0"	"1.18"	"1.048"
##	"-1.128"	"0"	"1.23"	"1.09"
##	"-1.128"	"0"	"1.23"	"1.09"
##	"-1.128"	"0"	"1.23"	"1.09"
##	"-1.128"	"0"	"1.23"	"1.09"
##	"-1.128"	"0"	"1.23"	"1.09"
##	"-1.129"	"0"	"1.15"	"1.019"
##	"-1.129"	"0"	"1.15"	"1.019"
##	"-1.13"	"0"	"1.13"	"0.939"
##	"-1.13"	"21"	"27.05"	"5.353"
##	"-1.131"	"1"	"2.92"	"1.698"
##	"-1.132"	"1"	"3.1"	"1.856"
##	"-1.134"	"0"	"1.28"	"1.129"
##	"-1.134"	"0"	"1.33"	"1.173"
##	"-1.135"	"0"	"1.69"	"1.489"
##	"-1.135"	"0"	"1.21"	"1.066"
##	"-1.136"	"0"	"1.18"	"1.038"
##	"-1.137"	"0"	"1.52"	"1.337"
##	"-1.137"	"0"	"1.52"	"1.337"
##	"-1.138"	"0"	"1.2"	"1.054"
##	"-1.14"	"0"	"1.14"	"0.932"
##	"-1.14"	"0"	"1.14"	"0.876"
##	"-1.141"	"0"	"1.34"	"1.174"
##	"-1.144"	"0"	"1.24"	"1.084"
##	"-1.144"	"0"	"1.32"	"1.154"
##	"-1.15"	"0"	"1.29"	"1.122"

##	"-1.15"	"3"	"5.39"	"2.079"
##	"-1.151"	"12"	"16.39"	"3.814"
##	"-1.155"	"0"	"1.31"	"1.134"
##	"-1.155"	"0"	"1.21"	"1.047"
##	"-1.16"	"0"	"1.2"	"1.035"
##	"-1.16"	"0"	"1.42"	"1.224"
##	"-1.161"	"1"	"3.04"	"1.758"
##	"-1.162"	"0"	"1.22"	"1.05"
##	"-1.165"	"2"	"4.27"	"1.948"
##	"-1.165"	"1"	"2.83"	"1.57"
##	"-1.166"	"2"	"4.76"	"2.366"
##	"-1.168"	"0"	"1.23"	"1.053"
##	"-1.171"	"1"	"2.58"	"1.35"
##	"-1.175"	"0"	"1.44"	"1.225"
##	"-1.175"	"0"	"1.61"	"1.37"
##	"-1.175"	"0"	"1.44"	"1.225"
##	"-1.177"	"0"	"1.82"	"1.546"
##	"-1.18"	"0"	"1.18"	"0.892"
##	"-1.181"	"1"	"3.36"	"1.998"
##	"-1.182"	"0"	"1.2"	"1.015"
##	"-1.186"	"0"	"1.3"	"1.096"
##	"-1.186"	"0"	"1.3"	"1.096"
##	"-1.186"	"0"	"1.3"	"1.096"
##	"-1.187"	"2"	"4.5"	"2.106"
##	"-1.188"	"78"	"88.37"	"8.729"
##	"-1.189"	"18"	"23.79"	"4.871"
##	"-1.19"	"0"	"1.37"	"1.152"
##	"-1.19"	"0"	"1.23"	"1.033"
##	"-1.192"	"2"	"4.33"	"1.954"
##	"-1.196"	"1"	"3.07"	"1.731"
##	"-1.197"	"0"	"1.58"	"1.319"
##	"-1.2"	"0"	"1.32"	"1.1"
##	"-1.2"	"0"	"1.53"	"1.275"
##	"-1.2"	"0"	"1.32"	"1.1"
##	"-1.201"	"0"	"1.42"	"1.182"
##	"-1.202"	"2"	"4.57"	"2.138"
##	"-1.207"	"0"	"1.46"	"1.21"
##	"-1.208"	"2"	"4.74"	"2.268"
##	"-1.21"	"0"	"1.42"	"1.174"
##	"-1.21"	"0"	"1.86"	"1.538"
##	"-1.21"	"0"	"1.21"	"0.957"
##	"-1.211"	"6"	"9.28"	"2.708"
##	"-1.212"	"0"	"1.35"	"1.114"
##	"-1.215"	"0"	"1.48"	"1.218"
##	"-1.217"	"23"	"28.79"	"4.757"
##	"-1.22"	"0"	"1.22"	"0.938"
##	"-1.22"	"0"	"1.64"	"1.345"
##	"-1.221"	"0"	"1.6"	"1.31"
##	"-1.221"	"0"	"1.6"	"1.31"
##	"-1.223"	"0"	"1.53"	"1.251"
##	"-1.224"	"0"	"1.46"	"1.193"
##	"-1.224"	"0"	"1.46"	"1.193"
##	"-1.224"	"0"	"1.46"	"1.193"
##	"-1.226"	"1"	"3.63"	"2.145"

##	"-1.226"	"0"	"1.58"	"1.288"
##	"-1.228"	"0"	"1.97"	"1.605"
##	"-1.228"	"0"	"1.6"	"1.303"
##	"-1.229"	"0"	"1.75"	"1.424"
##	"-1.23"	"0"	"1.23"	"0.941"
##	"-1.23"	"0"	"1.23"	"0.993"
##	"-1.23"	"0"	"1.23"	"0.941"
##	"-1.23"	"0"	"1.23"	"0.908"
##	"-1.23"	"0"	"1.36"	"1.106"
##	"-1.231"	"0"	"1.54"	"1.251"
##	"-1.232"	"0"	"1.47"	"1.193"
##	"-1.232"	"0"	"1.55"	"1.258"
##	"-1.233"	"18"	"24.53"	"5.296"
##	"-1.233"	"0"	"1.46"	"1.184"
##	"-1.235"	"0"	"1.72"	"1.393"
##	"-1.236"	"5"	"8.34"	"2.701"
##	"-1.236"	"3"	"5.79"	"2.258"
##	"-1.239"	"0"	"1.3"	"1.049"
##	"-1.239"	"0"	"1.5"	"1.21"
##	"-1.239"	"0"	"1.25"	"1.009"
##	"-1.24"	"0"	"1.48"	"1.193"
##	"-1.241"	"0"	"1.4"	"1.128"
##	"-1.241"	"0"	"1.4"	"1.128"
##	"-1.241"	"3"	"6.43"	"2.764"
##	"-1.242"	"0"	"1.69"	"1.361"
##	"-1.242"	"0"	"1.32"	"1.062"
##	"-1.243"	"0"	"1.29"	"1.038"
##	"-1.243"	"2"	"4.52"	"2.027"
##	"-1.244"	"8"	"12.11"	"3.303"
##	"-1.244"	"0"	"1.44"	"1.157"
##	"-1.244"	"0"	"1.44"	"1.157"
##	"-1.245"	"0"	"1.67"	"1.341"
##	"-1.246"	"2"	"4.63"	"2.111"
##	"-1.247"	"1"	"2.82"	"1.459"
##	"-1.248"	"0"	"1.54"	"1.234"
##	"-1.25"	"0"	"1.25"	"0.989"
##	"-1.25"	"1"	"2.76"	"1.408"
##	"-1.25"	"0"	"1.3"	"1.04"
##	"-1.251"	"0"	"1.36"	"1.087"
##	"-1.251"	"0"	"1.66"	"1.327"
##	"-1.251"	"0"	"1.81"	"1.447"
##	"-1.252"	"133"	"148.07"	"12.04"
##	"-1.256"	"0"	"1.53"	"1.218"
##	"-1.256"	"0"	"2.35"	"1.872"
##	"-1.256"	"0"	"1.53"	"1.218"
##	"-1.258"	"0"	"1.49"	"1.185"
##	"-1.258"	"1"	"3.06"	"1.638"
##	"-1.262"	"5"	"8.91"	"3.098"
##	"-1.263"	"0"	"1.69"	"1.339"
##	"-1.266"	"0"	"1.38"	"1.09"
##	"-1.266"	"1"	"2.95"	"1.54"
##	"-1.266"	"0"	"1.8"	"1.421"
##	"-1.269"	"0"	"1.47"	"1.159"
##	"-1.27"	"14"	"18.84"	"3.81"

##	"-1.271"	"2"	"4.6"	"2.045"
##	"-1.274"	"15"	"20.13"	"4.027"
##	"-1.275"	"0"	"1.3"	"1.02"
##	"-1.275"	"43"	"50.5"	"5.882"
##	"-1.276"	"0"	"2.42"	"1.897"
##	"-1.276"	"0"	"1.76"	"1.379"
##	"-1.277"	"0"	"1.38"	"1.08"
##	"-1.28"	"39"	"48.24"	"7.218"
##	"-1.28"	"2"	"5.06"	"2.39"
##	"-1.281"	"0"	"2.07"	"1.616"
##	"-1.282"	"0"	"1.31"	"1.022"
##	"-1.283"	"0"	"1.76"	"1.372"
##	"-1.283"	"0"	"1.68"	"1.309"
##	"-1.285"	"0"	"1.77"	"1.377"
##	"-1.286"	"25"	"31.84"	"5.318"
##	"-1.288"	"1"	"3.85"	"2.213"
##	"-1.288"	"0"	"1.71"	"1.328"
##	"-1.291"	"1"	"3.14"	"1.658"
##	"-1.292"	"0"	"1.77"	"1.37"
##	"-1.294"	"0"	"2.01"	"1.554"
##	"-1.295"	"0"	"1.65"	"1.274"
##	"-1.297"	"3"	"6.58"	"2.76"
##	"-1.297"	"0"	"1.94"	"1.496"
##	"-1.299"	"0"	"1.42"	"1.093"
##	"-1.3"	"0"	"1.46"	"1.123"
##	"-1.3"	"0"	"1.3"	"0.99"
##	"-1.3"	"0"	"1.56"	"1.2"
##	"-1.3"	"0"	"1.46"	"1.123"
##	"-1.3"	"0"	"1.46"	"1.123"
##	"-1.3"	"0"	"1.46"	"1.123"
##	"-1.3"	"0"	"1.46"	"1.123"
##	"-1.301"	"0"	"1.53"	"1.176"
##	"-1.301"	"0"	"1.9"	"1.46"
##	"-1.304"	"0"	"1.5"	"1.15"
##	"-1.304"	"0"	"1.44"	"1.104"
##	"-1.307"	"0"	"1.31"	"1.002"
##	"-1.308"	"45"	"54.34"	"7.138"
##	"-1.308"	"0"	"1.69"	"1.293"
##	"-1.308"	"0"	"1.74"	"1.33"
##	"-1.309"	"0"	"1.56"	"1.192"
##	"-1.309"	"0"	"1.6"	"1.223"
##	"-1.31"	"0"	"1.31"	"0.982"
##	"-1.311"	"0"	"1.89"	"1.442"
##	"-1.314"	"46"	"54.55"	"6.505"
##	"-1.316"	"0"	"1.84"	"1.398"
##	"-1.318"	"0"	"1.79"	"1.358"
##	"-1.318"	"0"	"1.71"	"1.297"
##	"-1.319"	"0"	"2.06"	"1.562"
##	"-1.322"	"0"	"2.01"	"1.521"
##	"-1.322"	"0"	"1.52"	"1.15"
##	"-1.323"	"0"	"1.78"	"1.345"
##	"-1.325"	"2"	"5.09"	"2.332"
##	"-1.325"	"0"	"2.09"	"1.577"
##	"-1.325"	"0"	"2.02"	"1.524"

##	"-1.325"	"0"	"1.35"	"1.019"
##	"-1.328"	"0"	"1.98"	"1.491"
##	"-1.328"	"0"	"1.83"	"1.378"
##	"-1.329"	"22"	"29.41"	"5.576"
##	"-1.331"	"0"	"1.78"	"1.338"
##	"-1.333"	"0"	"1.94"	"1.455"
##	"-1.333"	"0"	"1.92"	"1.44"
##	"-1.338"	"48"	"59.05"	"8.261"
##	"-1.34"	"0"	"1.92"	"1.433"
##	"-1.341"	"0"	"1.47"	"1.096"
##	"-1.342"	"11"	"16.48"	"4.084"
##	"-1.344"	"0"	"1.84"	"1.369"
##	"-1.345"	"1"	"3.11"	"1.569"
##	"-1.346"	"0"	"2.24"	"1.664"
##	"-1.347"	"0"	"1.45"	"1.077"
##	"-1.347"	"0"	"2.06"	"1.53"
##	"-1.351"	"44"	"52.6"	"6.368"
##	"-1.351"	"1"	"5.37"	"3.234"
##	"-1.353"	"2"	"5.12"	"2.306"
##	"-1.354"	"0"	"1.9"	"1.403"
##	"-1.355"	"2"	"4.26"	"1.667"
##	"-1.356"	"0"	"1.79"	"1.32"
##	"-1.356"	"0"	"1.79"	"1.32"
##	"-1.363"	"0"	"1.74"	"1.276"
##	"-1.364"	"0"	"1.62"	"1.187"
##	"-1.364"	"1"	"3.78"	"2.038"
##	"-1.364"	"0"	"1.62"	"1.187"
##	"-1.365"	"0"	"2.06"	"1.51"
##	"-1.365"	"0"	"2.06"	"1.51"
##	"-1.365"	"0"	"1.61"	"1.18"
##	"-1.365"	"0"	"2.06"	"1.51"
##	"-1.368"	"1"	"3.58"	"1.887"
##	"-1.375"	"4"	"8.78"	"3.477"
##	"-1.375"	"0"	"1.9"	"1.382"
##	"-1.377"	"0"	"1.88"	"1.365"
##	"-1.378"	"0"	"1.57"	"1.139"
##	"-1.38"	"0"	"1.38"	"0.993"
##	"-1.381"	"0"	"1.74"	"1.26"
##	"-1.383"	"5"	"8.78"	"2.732"
##	"-1.386"	"1"	"3.97"	"2.144"
##	"-1.389"	"4"	"7.34"	"2.405"
##	"-1.391"	"0"	"2.28"	"1.64"
##	"-1.391"	"0"	"2.28"	"1.64"
##	"-1.396"	"5"	"8.6"	"2.578"
##	"-1.397"	"0"	"2.25"	"1.61"
##	"-1.401"	"0"	"2.29"	"1.635"
##	"-1.401"	"1"	"3.12"	"1.513"
##	"-1.407"	"0"	"1.73"	"1.23"
##	"-1.407"	"0"	"1.73"	"1.23"
##	"-1.407"	"225"	"249.01"	"17.065"
##	"-1.407"	"0"	"1.73"	"1.23"
##	"-1.41"	"40"	"48.9"	"6.313"
##	"-1.412"	"0"	"2.05"	"1.452"
##	"-1.414"	"0"	"2.09"	"1.478"

##	"-1.416"	"1"	"3.9"	"2.047"
##	"-1.417"	"1"	"3.81"	"1.983"
##	"-1.418"	"0"	"2.68"	"1.89"
##	"-1.424"	"0"	"1.94"	"1.362"
##	"-1.424"	"0"	"1.94"	"1.362"
##	"-1.424"	"8"	"13.13"	"3.603"
##	"-1.425"	"1"	"3.03"	"1.425"
##	"-1.428"	"0"	"1.75"	"1.226"
##	"-1.428"	"0"	"1.75"	"1.226"
##	"-1.43"	"2"	"4.99"	"2.091"
##	"-1.431"	"0"	"2.2"	"1.537"
##	"-1.435"	"3"	"6.53"	"2.46"
##	"-1.436"	"0"	"2"	"1.393"
##	"-1.441"	"0"	"1.6"	"1.11"
##	"-1.443"	"0"	"2.11"	"1.463"
##	"-1.443"	"0"	"2.11"	"1.463"
##	"-1.445"	"0"	"1.7"	"1.176"
##	"-1.448"	"0"	"2.5"	"1.726"
##	"-1.448"	"0"	"2.5"	"1.726"
##	"-1.45"	"0"	"1.56"	"1.076"
##	"-1.45"	"1"	"3.45"	"1.69"
##	"-1.451"	"7"	"12.17"	"3.562"
##	"-1.451"	"0"	"2.02"	"1.392"
##	"-1.451"	"2"	"4.96"	"2.04"
##	"-1.452"	"1"	"4.18"	"2.19"
##	"-1.452"	"10"	"16.22"	"4.284"
##	"-1.452"	"14"	"19.32"	"3.665"
##	"-1.453"	"0"	"2.22"	"1.528"
##	"-1.454"	"1"	"3.65"	"1.822"
##	"-1.454"	"0"	"2.05"	"1.41"
##	"-1.454"	"0"	"2.43"	"1.671"
##	"-1.458"	"4"	"7.78"	"2.592"
##	"-1.46"	"0"	"2.44"	"1.672"
##	"-1.462"	"0"	"1.8"	"1.231"
##	"-1.462"	"1"	"3.54"	"1.737"
##	"-1.462"	"61"	"73.92"	"8.837"
##	"-1.463"	"0"	"2.24"	"1.532"
##	"-1.466"	"0"	"2.22"	"1.515"
##	"-1.468"	"1"	"3.55"	"1.737"
##	"-1.472"	"0"	"1.9"	"1.291"
##	"-1.472"	"0"	"2.74"	"1.862"
##	"-1.472"	"0"	"1.9"	"1.291"
##	"-1.472"	"0"	"1.9"	"1.291"
##	"-1.472"	"0"	"1.9"	"1.291"
##	"-1.474"	"0"	"1.87"	"1.269"
##	"-1.476"	"0"	"2.36"	"1.599"
##	"-1.476"	"0"	"2.17"	"1.471"
##	"-1.479"	"3"	"6.39"	"2.291"
##	"-1.481"	"0"	"2.04"	"1.377"
##	"-1.483"	"1"	"3.81"	"1.895"
##	"-1.485"	"0"	"2.09"	"1.408"
##	"-1.486"	"0"	"1.92"	"1.292"
##	"-1.487"	"61"	"71.04"	"6.754"
##	"-1.49"	"1"	"4.38"	"2.269"

##	"-1.492"	"0"	"2.31"	"1.549"
##	"-1.497"	"0"	"1.99"	"1.33"
##	"-1.497"	"0"	"1.93"	"1.289"
##	"-1.497"	"0"	"1.93"	"1.289"
##	"-1.497"	"0"	"1.99"	"1.33"
##	"-1.498"	"0"	"2.45"	"1.635"
##	"-1.499"	"0"	"2.19"	"1.461"
##	"-1.5"	"1"	"4.12"	"2.081"
##	"-1.502"	"0"	"1.91"	"1.272"
##	"-1.502"	"0"	"2.34"	"1.558"
##	"-1.502"	"5"	"9.65"	"3.096"
##	"-1.504"	"4"	"8"	"2.659"
##	"-1.505"	"0"	"2.12"	"1.409"
##	"-1.511"	"19"	"27.55"	"5.658"
##	"-1.511"	"0"	"2.23"	"1.476"
##	"-1.513"	"2"	"5.87"	"2.557"
##	"-1.513"	"0"	"1.92"	"1.269"
##	"-1.518"	"2"	"5.11"	"2.049"
##	"-1.518"	"0"	"2.75"	"1.811"
##	"-1.518"	"0"	"2.37"	"1.561"
##	"-1.521"	"0"	"2.01"	"1.322"
##	"-1.521"	"54"	"65"	"7.232"
##	"-1.521"	"6"	"11.03"	"3.307"
##	"-1.523"	"1"	"3.67"	"1.753"
##	"-1.523"	"0"	"1.99"	"1.307"
##	"-1.524"	"0"	"1.96"	"1.286"
##	"-1.527"	"29"	"37.98"	"5.883"
##	"-1.53"	"0"	"2.86"	"1.87"
##	"-1.532"	"7"	"12.03"	"3.283"
##	"-1.532"	"2"	"5.61"	"2.357"
##	"-1.533"	"0"	"1.96"	"1.279"
##	"-1.533"	"1"	"3.63"	"1.715"
##	"-1.535"	"0"	"2.41"	"1.571"
##	"-1.536"	"18"	"25.48"	"4.871"
##	"-1.537"	"0"	"2.24"	"1.457"
##	"-1.54"	"0"	"2.26"	"1.468"
##	"-1.541"	"0"	"2.29"	"1.486"
##	"-1.543"	"16"	"22.11"	"3.959"
##	"-1.545"	"0"	"2.1"	"1.36"
##	"-1.546"	"0"	"2.44"	"1.578"
##	"-1.548"	"9"	"14.71"	"3.688"
##	"-1.55"	"0"	"2.28"	"1.471"
##	"-1.554"	"4"	"8.61"	"2.967"
##	"-1.554"	"2"	"5.37"	"2.168"
##	"-1.556"	"0"	"2.38"	"1.529"
##	"-1.556"	"2"	"5.81"	"2.448"
##	"-1.559"	"21"	"28.2"	"4.619"
##	"-1.559"	"0"	"2.54"	"1.629"
##	"-1.563"	"0"	"2.6"	"1.664"
##	"-1.564"	"0"	"2.73"	"1.746"
##	"-1.568"	"1"	"4.41"	"2.175"
##	"-1.573"	"0"	"2.42"	"1.539"
##	"-1.573"	"0"	"2.69"	"1.71"
##	"-1.574"	"0"	"2.17"	"1.378"

##	"-1.577"	"0"	"2.07"	"1.312"
##	"-1.578"	"0"	"2.16"	"1.369"
##	"-1.578"	"0"	"2.44"	"1.546"
##	"-1.582"	"0"	"2.27"	"1.434"
##	"-1.583"	"0"	"2.3"	"1.453"
##	"-1.587"	"0"	"2.16"	"1.361"
##	"-1.588"	"2"	"5.59"	"2.261"
##	"-1.588"	"0"	"2.4"	"1.511"
##	"-1.59"	"2"	"5.72"	"2.34"
##	"-1.59"	"2"	"5.72"	"2.34"
##	"-1.593"	"327"	"354.43"	"17.221"
##	"-1.594"	"1"	"4.61"	"2.265"
##	"-1.596"	"0"	"3.12"	"1.955"
##	"-1.598"	"1122"	"1178.24"	"35.196"
##	"-1.601"	"1"	"4.18"	"1.987"
##	"-1.605"	"0"	"2.45"	"1.527"
##	"-1.605"	"2"	"6.07"	"2.536"
##	"-1.61"	"12"	"19.02"	"4.36"
##	"-1.611"	"0"	"2.39"	"1.483"
##	"-1.613"	"3"	"7.65"	"2.883"
##	"-1.618"	"0"	"2.62"	"1.619"
##	"-1.619"	"60"	"73.15"	"8.121"
##	"-1.626"	"0"	"2.88"	"1.771"
##	"-1.628"	"0"	"2.84"	"1.745"
##	"-1.628"	"170"	"192.39"	"13.752"
##	"-1.629"	"31"	"41.33"	"6.342"
##	"-1.631"	"0"	"3.83"	"2.349"
##	"-1.632"	"22"	"31.7"	"5.943"
##	"-1.633"	"21"	"30.16"	"5.61"
##	"-1.635"	"60"	"72.28"	"7.512"
##	"-1.638"	"0"	"2.13"	"1.3"
##	"-1.638"	"0"	"2.25"	"1.373"
##	"-1.638"	"0"	"2.25"	"1.373"
##	"-1.64"	"6"	"10.75"	"2.897"
##	"-1.645"	"3"	"7.95"	"3.01"
##	"-1.65"	"0"	"2.18"	"1.321"
##	"-1.653"	"0"	"2.66"	"1.609"
##	"-1.654"	"0"	"3.22"	"1.947"
##	"-1.655"	"0"	"2.19"	"1.323"
##	"-1.657"	"101"	"118.78"	"10.732"
##	"-1.659"	"1"	"4.08"	"1.857"
##	"-1.661"	"0"	"2.47"	"1.487"
##	"-1.665"	"0"	"3.32"	"1.994"
##	"-1.665"	"1"	"4.07"	"1.844"
##	"-1.667"	"0"	"3.09"	"1.854"
##	"-1.669"	"24"	"32.11"	"4.859"
##	"-1.67"	"0"	"2.58"	"1.545"
##	"-1.67"	"0"	"2"	"1.198"
##	"-1.674"	"0"	"2.25"	"1.344"
##	"-1.674"	"0"	"2.23"	"1.332"
##	"-1.674"	"0"	"2.78"	"1.661"
##	"-1.675"	"2"	"5.79"	"2.262"
##	"-1.675"	"2"	"5.79"	"2.262"
##	"-1.675"	"2"	"5.79"	"2.262"

##	"-1.676"	"0"	"3.04"	"1.814"
##	"-1.679"	"0"	"2.96"	"1.763"
##	"-1.681"	"0"	"2.16"	"1.285"
##	"-1.686"	"1"	"4.72"	"2.207"
##	"-1.686"	"1"	"4.72"	"2.207"
##	"-1.688"	"0"	"2.24"	"1.327"
##	"-1.693"	"0"	"2.35"	"1.388"
##	"-1.693"	"86"	"102.78"	"9.909"
##	"-1.693"	"0"	"2.35"	"1.388"
##	"-1.699"	"3"	"6.67"	"2.161"
##	"-1.699"	"0"	"2.63"	"1.548"
##	"-1.704"	"0"	"3.18"	"1.866"
##	"-1.704"	"3"	"7.09"	"2.4"
##	"-1.706"	"26"	"34.24"	"4.829"
##	"-1.708"	"2"	"6.52"	"2.646"
##	"-1.709"	"2"	"5.23"	"1.89"
##	"-1.713"	"0"	"2.63"	"1.535"
##	"-1.715"	"0"	"3.01"	"1.755"
##	"-1.715"	"0"	"2.8"	"1.633"
##	"-1.721"	"0"	"2.9"	"1.685"
##	"-1.722"	"7"	"13.06"	"3.519"
##	"-1.728"	"0"	"2.63"	"1.522"
##	"-1.73"	"0"	"2.77"	"1.601"
##	"-1.733"	"0"	"2.97"	"1.714"
##	"-1.736"	"0"	"3.64"	"2.096"
##	"-1.737"	"65"	"80.51"	"8.928"
##	"-1.738"	"1"	"4.68"	"2.117"
##	"-1.738"	"0"	"3.05"	"1.755"
##	"-1.743"	"0"	"2.81"	"1.612"
##	"-1.743"	"0"	"2.66"	"1.526"
##	"-1.745"	"0"	"2.97"	"1.702"
##	"-1.75"	"0"	"2.3"	"1.314"
##	"-1.753"	"1"	"4.29"	"1.876"
##	"-1.761"	"11"	"18.24"	"4.112"
##	"-1.762"	"0"	"3.12"	"1.771"
##	"-1.763"	"0"	"3.17"	"1.798"
##	"-1.764"	"7"	"12.96"	"3.378"
##	"-1.765"	"0"	"3.06"	"1.734"
##	"-1.765"	"0"	"3.06"	"1.734"
##	"-1.765"	"0"	"2.82"	"1.598"
##	"-1.767"	"0"	"2.62"	"1.482"
##	"-1.767"	"2"	"6.81"	"2.722"
##	"-1.767"	"0"	"3.99"	"2.259"
##	"-1.772"	"9"	"14.9"	"3.329"
##	"-1.776"	"0"	"3.19"	"1.796"
##	"-1.782"	"0"	"3.6"	"2.02"
##	"-1.782"	"2"	"5.98"	"2.234"
##	"-1.784"	"9"	"15.71"	"3.761"
##	"-1.784"	"0"	"2.62"	"1.469"
##	"-1.785"	"1"	"4.72"	"2.084"
##	"-1.785"	"0"	"3.51"	"1.967"
##	"-1.789"	"0"	"3.87"	"2.163"
##	"-1.79"	"0"	"3.59"	"2.006"
##	"-1.791"	"5"	"10.16"	"2.881"

##	"-1.792"	"38"	"50.84"	"7.164"
##	"-1.795"	"6"	"12.58"	"3.666"
##	"-1.795"	"11"	"18.72"	"4.302"
##	"-1.795"	"11"	"18.72"	"4.302"
##	"-1.801"	"0"	"3.94"	"2.187"
##	"-1.801"	"0"	"3.18"	"1.766"
##	"-1.801"	"7"	"12.36"	"2.976"
##	"-1.804"	"0"	"3.37"	"1.868"
##	"-1.805"	"2"	"6.94"	"2.737"
##	"-1.805"	"0"	"2.85"	"1.579"
##	"-1.806"	"7"	"13.55"	"3.628"
##	"-1.807"	"0"	"3.8"	"2.103"
##	"-1.809"	"0"	"3.64"	"2.013"
##	"-1.812"	"7"	"14.07"	"3.901"
##	"-1.812"	"13"	"21.44"	"4.659"
##	"-1.813"	"0"	"3.74"	"2.063"
##	"-1.814"	"75"	"92.25"	"9.51"
##	"-1.818"	"0"	"2.77"	"1.523"
##	"-1.823"	"0"	"3.45"	"1.893"
##	"-1.825"	"12"	"19.76"	"4.252"
##	"-1.825"	"0"	"2.39"	"1.31"
##	"-1.829"	"2"	"6.98"	"2.723"
##	"-1.829"	"1"	"5.42"	"2.417"
##	"-1.83"	"2"	"7.09"	"2.782"
##	"-1.832"	"0"	"2.95"	"1.61"
##	"-1.832"	"0"	"3.64"	"1.987"
##	"-1.833"	"33"	"44.19"	"6.105"
##	"-1.834"	"0"	"3.22"	"1.756"
##	"-1.835"	"0"	"3.77"	"2.054"
##	"-1.838"	"110"	"132.42"	"12.2"
##	"-1.839"	"0"	"3.34"	"1.816"
##	"-1.84"	"1"	"4.77"	"2.049"
##	"-1.843"	"0"	"3.88"	"2.105"
##	"-1.843"	"0"	"3.88"	"2.105"
##	"-1.847"	"0"	"2.92"	"1.581"
##	"-1.847"	"0"	"3.08"	"1.668"
##	"-1.847"	"22"	"33.37"	"6.156"
##	"-1.848"	"6"	"14.16"	"4.415"
##	"-1.852"	"0"	"2.78"	"1.501"
##	"-1.854"	"4"	"9.33"	"2.875"
##	"-1.855"	"0"	"3.75"	"2.022"
##	"-1.86"	"0"	"3.08"	"1.656"
##	"-1.86"	"0"	"3.08"	"1.656"
##	"-1.862"	"0"	"2.3"	"1.235"
##	"-1.862"	"0"	"2.3"	"1.235"
##	"-1.863"	"1"	"4.85"	"2.066"
##	"-1.863"	"2"	"6.63"	"2.485"
##	"-1.865"	"0"	"3.64"	"1.952"
##	"-1.868"	"1"	"4.34"	"1.788"
##	"-1.87"	"0"	"3.64"	"1.946"
##	"-1.872"	"0"	"3.74"	"1.998"
##	"-1.872"	"0"	"3.66"	"1.955"
##	"-1.875"	"0"	"2.85"	"1.52"
##	"-1.876"	"0"	"3.37"	"1.796"

##	"-1.876"	"7"	"13.89"	"3.673"
##	"-1.877"	"0"	"2.55"	"1.359"
##	"-1.878"	"12"	"20.93"	"4.755"
##	"-1.88"	"21"	"31.56"	"5.616"
##	"-1.881"	"134"	"159.59"	"13.601"
##	"-1.883"	"0"	"3.61"	"1.917"
##	"-1.885"	"66"	"82.75"	"8.888"
##	"-1.89"	"0"	"3.01"	"1.592"
##	"-1.894"	"3"	"8.25"	"2.772"
##	"-1.902"	"0"	"3.91"	"2.055"
##	"-1.908"	"2"	"7.22"	"2.736"
##	"-1.914"	"6"	"12.63"	"3.463"
##	"-1.914"	"0"	"3.52"	"1.839"
##	"-1.915"	"16"	"25.74"	"5.086"
##	"-1.918"	"28"	"40.18"	"6.351"
##	"-1.919"	"1"	"5.33"	"2.257"
##	"-1.921"	"0"	"4.44"	"2.311"
##	"-1.922"	"0"	"2.89"	"1.503"
##	"-1.925"	"1"	"5.99"	"2.592"
##	"-1.93"	"2"	"7.14"	"2.663"
##	"-1.933"	"0"	"2.58"	"1.335"
##	"-1.933"	"0"	"2.58"	"1.335"
##	"-1.933"	"0"	"2.58"	"1.335"
##	"-1.933"	"0"	"2.58"	"1.335"
##	"-1.939"	"8"	"15.05"	"3.636"
##	"-1.943"	"0"	"2.84"	"1.461"
##	"-1.947"	"110"	"129.7"	"10.118"
##	"-1.947"	"0"	"4"	"2.055"
##	"-1.95"	"12"	"20.08"	"4.143"
##	"-1.955"	"0"	"3.8"	"1.944"
##	"-1.962"	"1"	"4.65"	"1.861"
##	"-1.962"	"0"	"3.01"	"1.534"
##	"-1.963"	"0"	"3.97"	"2.022"
##	"-1.965"	"0"	"3.41"	"1.736"
##	"-1.966"	"0"	"4.25"	"2.162"
##	"-1.967"	"0"	"4.19"	"2.131"
##	"-1.972"	"3"	"9.46"	"3.277"
##	"-1.975"	"7"	"14.59"	"3.843"
##	"-1.975"	"21"	"32.21"	"5.677"
##	"-1.98"	"0"	"4.12"	"2.081"
##	"-1.981"	"1"	"6.06"	"2.554"
##	"-1.983"	"0"	"3.9"	"1.967"
##	"-1.989"	"10"	"18.54"	"4.293"
##	"-1.99"	"0"	"3.61"	"1.814"
##	"-1.992"	"291"	"333.12"	"21.148"
##	"-1.994"	"165"	"193.36"	"14.224"
##	"-1.995"	"0"	"3.72"	"1.865"
##	"-1.996"	"0"	"3.48"	"1.744"
##	"-1.996"	"2"	"7.08"	"2.545"
##	"-1.997"	"0"	"3.65"	"1.828"
##	"-2.009"	"0"	"3.65"	"1.817"
##	"-2.012"	"0"	"3.94"	"1.958"
##	"-2.013"	"3"	"9.92"	"3.437"
##	"-2.013"	"1"	"4.78"	"1.878"

##	"-2.014"	"7"	"14.61"	"3.779"
##	"-2.014"	"10"	"17.29"	"3.619"
##	"-2.017"	"63"	"83.05"	"9.94"
##	"-2.019"	"0"	"3.03"	"1.501"
##	"-2.02"	"0"	"4.47"	"2.213"
##	"-2.02"	"0"	"4.37"	"2.163"
##	"-2.022"	"0"	"4.96"	"2.453"
##	"-2.024"	"0"	"3.47"	"1.714"
##	"-2.024"	"2"	"7.3"	"2.619"
##	"-2.032"	"0"	"2.86"	"1.407"
##	"-2.032"	"0"	"2.86"	"1.407"
##	"-2.034"	"0"	"3.64"	"1.79"
##	"-2.038"	"3"	"9.12"	"3.003"
##	"-2.041"	"17"	"28.57"	"5.668"
##	"-2.045"	"0"	"5.32"	"2.601"
##	"-2.049"	"1"	"5.7"	"2.294"
##	"-2.053"	"5"	"12.02"	"3.42"
##	"-2.061"	"2"	"8.12"	"2.969"
##	"-2.062"	"1"	"6.43"	"2.633"
##	"-2.062"	"1"	"5.71"	"2.284"
##	"-2.062"	"1"	"5.71"	"2.284"
##	"-2.064"	"1"	"5.4"	"2.132"
##	"-2.064"	"2"	"7.3"	"2.568"
##	"-2.071"	"0"	"4.25"	"2.052"
##	"-2.074"	"3"	"9.56"	"3.163"
##	"-2.081"	"1"	"5.25"	"2.042"
##	"-2.083"	"8"	"16.87"	"4.258"
##	"-2.084"	"0"	"4.08"	"1.958"
##	"-2.086"	"0"	"4.53"	"2.172"
##	"-2.088"	"4"	"10.54"	"3.132"
##	"-2.09"	"0"	"4.45"	"2.129"
##	"-2.091"	"30"	"41.9"	"5.69"
##	"-2.092"	"958"	"1020.3"	"29.776"
##	"-2.092"	"0"	"5.09"	"2.433"
##	"-2.096"	"2"	"7.02"	"2.395"
##	"-2.098"	"36"	"50.96"	"7.132"
##	"-2.099"	"1"	"6.42"	"2.583"
##	"-2.102"	"1"	"6.73"	"2.726"
##	"-2.104"	"0"	"4.18"	"1.987"
##	"-2.105"	"35"	"49.14"	"6.717"
##	"-2.108"	"0"	"5.62"	"2.666"
##	"-2.111"	"1"	"6.24"	"2.483"
##	"-2.113"	"12"	"19.97"	"3.772"
##	"-2.114"	"0"	"4.31"	"2.038"
##	"-2.116"	"25"	"37.25"	"5.79"
##	"-2.117"	"0"	"4.39"	"2.074"
##	"-2.118"	"0"	"4.32"	"2.039"
##	"-2.118"	"0"	"4.79"	"2.262"
##	"-2.121"	"1"	"6.23"	"2.465"
##	"-2.122"	"0"	"4.76"	"2.243"
##	"-2.126"	"0"	"3.39"	"1.595"
##	"-2.132"	"0"	"3.78"	"1.773"
##	"-2.133"	"4"	"10.16"	"2.888"
##	"-2.136"	"112"	"139.63"	"12.934"

##	"-2.142"	"0"	"4.49"	"2.096"
##	"-2.142"	"0"	"4.49"	"2.096"
##	"-2.142"	"0"	"4.49"	"2.096"
##	"-2.142"	"0"	"4.49"	"2.096"
##	"-2.144"	"1"	"7.58"	"3.069"
##	"-2.144"	"1"	"6.64"	"2.631"
##	"-2.147"	"0"	"5.35"	"2.492"
##	"-2.148"	"0"	"3.54"	"1.648"
##	"-2.153"	"0"	"4.83"	"2.243"
##	"-2.153"	"0"	"4.47"	"2.077"
##	"-2.153"	"0"	"4.47"	"2.077"
##	"-2.153"	"0"	"4.47"	"2.077"
##	"-2.154"	"0"	"4.18"	"1.94"
##	"-2.154"	"13"	"23.73"	"4.98"
##	"-2.155"	"0"	"4.43"	"2.056"
##	"-2.155"	"0"	"4.43"	"2.056"
##	"-2.155"	"0"	"4.43"	"2.056"
##	"-2.157"	"26"	"38.57"	"5.826"
##	"-2.158"	"0"	"3.68"	"1.705"
##	"-2.158"	"0"	"3.68"	"1.705"
##	"-2.166"	"0"	"5.04"	"2.326"
##	"-2.167"	"0"	"4.01"	"1.85"
##	"-2.169"	"0"	"4.38"	"2.019"
##	"-2.169"	"0"	"4.19"	"1.932"
##	"-2.173"	"2"	"8.26"	"2.88"
##	"-2.173"	"0"	"4.62"	"2.126"
##	"-2.174"	"4"	"11.43"	"3.418"
##	"-2.177"	"0"	"4.16"	"1.911"
##	"-2.177"	"0"	"4.23"	"1.943"
##	"-2.191"	"13"	"23.37"	"4.733"
##	"-2.199"	"7"	"15.28"	"3.766"
##	"-2.2"	"1"	"5.9"	"2.227"
##	"-2.201"	"46"	"61.97"	"7.255"
##	"-2.202"	"1"	"6.81"	"2.639"
##	"-2.202"	"5"	"12.25"	"3.292"
##	"-2.208"	"0"	"4.16"	"1.884"
##	"-2.21"	"0"	"4.27"	"1.932"
##	"-2.21"	"0"	"4.33"	"1.959"
##	"-2.21"	"16"	"26.99"	"4.974"
##	"-2.21"	"0"	"4.27"	"1.932"
##	"-2.21"	"0"	"4.33"	"1.959"
##	"-2.21"	"0"	"4.33"	"1.959"
##	"-2.21"	"0"	"4.33"	"1.959"
##	"-2.21"	"0"	"4.33"	"1.959"
##	"-2.212"	"10"	"19.24"	"4.178"
##	"-2.218"	"0"	"4"	"1.803"
##	"-2.219"	"0"	"4.38"	"1.973"
##	"-2.22"	"1"	"6.6"	"2.523"
##	"-2.225"	"0"	"5.02"	"2.256"
##	"-2.228"	"2"	"7.48"	"2.46"
##	"-2.229"	"127"	"156.66"	"13.307"
##	"-2.23"	"0"	"4.08"	"1.83"
##	"-2.234"	"1"	"7.44"	"2.883"
##	"-2.237"	"0"	"4.31"	"1.926"

##	"-2.241"	"0"	"4.24"	"1.892"
##	"-2.243"	"107"	"130.73"	"10.579"
##	"-2.248"	"0"	"4.35"	"1.935"
##	"-2.25"	"0"	"3.64"	"1.618"
##	"-2.256"	"0"	"5.53"	"2.451"
##	"-2.256"	"0"	"3.46"	"1.534"
##	"-2.258"	"0"	"4.36"	"1.931"
##	"-2.262"	"0"	"5.63"	"2.489"
##	"-2.264"	"0"	"4.13"	"1.824"
##	"-2.268"	"46"	"62.34"	"7.206"
##	"-2.269"	"27"	"40.57"	"5.98"
##	"-2.27"	"1"	"6.84"	"2.573"
##	"-2.271"	"12"	"22.56"	"4.65"
##	"-2.272"	"37"	"50.89"	"6.113"
##	"-2.272"	"0"	"5.35"	"2.354"
##	"-2.273"	"1"	"7.25"	"2.75"
##	"-2.275"	"5"	"13.76"	"3.851"
##	"-2.277"	"6"	"13.33"	"3.219"
##	"-2.278"	"0"	"4.99"	"2.19"
##	"-2.284"	"0"	"5.16"	"2.26"
##	"-2.285"	"2"	"8.7"	"2.932"
##	"-2.285"	"99"	"121.58"	"9.881"
##	"-2.287"	"0"	"5.66"	"2.475"
##	"-2.298"	"0"	"4.46"	"1.941"
##	"-2.298"	"0"	"4.46"	"1.941"
##	"-2.304"	"5"	"11.59"	"2.861"
##	"-2.304"	"0"	"4.19"	"1.819"
##	"-2.306"	"0"	"5.74"	"2.489"
##	"-2.311"	"406"	"453.35"	"20.487"
##	"-2.315"	"0"	"6.34"	"2.739"
##	"-2.316"	"33"	"48.07"	"6.508"
##	"-2.316"	"5"	"12.46"	"3.221"
##	"-2.32"	"3"	"10.48"	"3.224"
##	"-2.32"	"3"	"10.48"	"3.224"
##	"-2.321"	"0"	"5.09"	"2.193"
##	"-2.322"	"0"	"4.77"	"2.054"
##	"-2.323"	"24"	"39.05"	"6.48"
##	"-2.323"	"0"	"4.46"	"1.92"
##	"-2.329"	"3"	"9.1"	"2.619"
##	"-2.333"	"0"	"4.48"	"1.92"
##	"-2.337"	"3"	"10.81"	"3.341"
##	"-2.342"	"13"	"23.08"	"4.303"
##	"-2.347"	"1"	"6.68"	"2.42"
##	"-2.348"	"0"	"5.17"	"2.202"
##	"-2.349"	"0"	"4.06"	"1.728"
##	"-2.351"	"3"	"9.78"	"2.884"
##	"-2.357"	"6"	"14.29"	"3.517"
##	"-2.362"	"0"	"4.98"	"2.108"
##	"-2.362"	"2"	"9.08"	"2.997"
##	"-2.362"	"4"	"11.08"	"2.997"
##	"-2.364"	"0"	"4.33"	"1.832"
##	"-2.365"	"0"	"5.91"	"2.499"
##	"-2.365"	"0"	"5.86"	"2.478"
##	"-2.386"	"117"	"142.35"	"10.626"

##	"-2.389"	"1"	"6.48"	"2.294"
##	"-2.389"	"64"	"87.97"	"10.034"
##	"-2.39"	"62"	"81.33"	"8.088"
##	"-2.393"	"6"	"14.66"	"3.619"
##	"-2.396"	"16"	"25.91"	"4.137"
##	"-2.398"	"0"	"4.61"	"1.922"
##	"-2.399"	"56"	"78.16"	"9.237"
##	"-2.401"	"0"	"6.75"	"2.812"
##	"-2.402"	"7"	"17.08"	"4.196"
##	"-2.408"	"16"	"28.72"	"5.282"
##	"-2.409"	"8"	"18.49"	"4.354"
##	"-2.411"	"0"	"6.48"	"2.687"
##	"-2.413"	"2"	"9.05"	"2.921"
##	"-2.416"	"126"	"153.64"	"11.44"
##	"-2.416"	"3"	"9.75"	"2.794"
##	"-2.421"	"8"	"16.61"	"3.556"
##	"-2.423"	"0"	"5.28"	"2.179"
##	"-2.423"	"6"	"14.18"	"3.377"
##	"-2.423"	"0"	"5.28"	"2.179"
##	"-2.425"	"1"	"6.33"	"2.198"
##	"-2.425"	"3"	"11.19"	"3.378"
##	"-2.426"	"0"	"7.42"	"3.059"
##	"-2.428"	"14"	"26.67"	"5.219"
##	"-2.43"	"18"	"31.33"	"5.487"
##	"-2.431"	"0"	"5.66"	"2.328"
##	"-2.431"	"0"	"5.66"	"2.328"
##	"-2.432"	"0"	"4.88"	"2.006"
##	"-2.432"	"0"	"4.88"	"2.006"
##	"-2.432"	"0"	"4.88"	"2.006"
##	"-2.435"	"0"	"5.43"	"2.23"
##	"-2.445"	"0"	"5.08"	"2.078"
##	"-2.446"	"22"	"37.1"	"6.173"
##	"-2.448"	"1"	"6.57"	"2.275"
##	"-2.449"	"2"	"8.41"	"2.617"
##	"-2.456"	"1"	"9.87"	"3.612"
##	"-2.463"	"0"	"7.13"	"2.894"
##	"-2.465"	"4"	"12.63"	"3.501"
##	"-2.466"	"20"	"34.54"	"5.897"
##	"-2.467"	"0"	"4.05"	"1.641"
##	"-2.468"	"1"	"6.65"	"2.289"
##	"-2.471"	"0"	"6.13"	"2.481"
##	"-2.471"	"4"	"13.44"	"3.82"
##	"-2.472"	"4"	"13.74"	"3.941"
##	"-2.474"	"2"	"9.48"	"3.023"
##	"-2.478"	"10"	"20.94"	"4.415"
##	"-2.479"	"0"	"6.94"	"2.799"
##	"-2.488"	"21"	"36.72"	"6.318"
##	"-2.494"	"3"	"11.2"	"3.288"
##	"-2.495"	"1"	"6.27"	"2.112"
##	"-2.495"	"0"	"4.31"	"1.727"
##	"-2.499"	"8"	"18.15"	"4.061"
##	"-2.5"	"25"	"40.24"	"6.095"
##	"-2.502"	"1"	"8.29"	"2.914"
##	"-2.507"	"13"	"23.81"	"4.313"

##	"-2.51"	"5"	"13.57"	"3.415"
##	"-2.513"	"1"	"6.97"	"2.376"
##	"-2.516"	"202"	"238.61"	"14.553"
##	"-2.516"	"0"	"4.88"	"1.94"
##	"-2.521"	"3"	"10.82"	"3.102"
##	"-2.529"	"0"	"6.96"	"2.752"
##	"-2.531"	"2"	"9.65"	"3.023"
##	"-2.534"	"3"	"10.23"	"2.853"
##	"-2.536"	"175"	"212.07"	"14.619"
##	"-2.542"	"1"	"8.62"	"2.998"
##	"-2.547"	"29"	"45.5"	"6.478"
##	"-2.549"	"0"	"5.71"	"2.24"
##	"-2.549"	"0"	"5.71"	"2.24"
##	"-2.557"	"1"	"6.76"	"2.252"
##	"-2.566"	"2"	"9.45"	"2.904"
##	"-2.567"	"0"	"6.56"	"2.556"
##	"-2.568"	"30"	"45.64"	"6.089"
##	"-2.57"	"0"	"6.15"	"2.393"
##	"-2.57"	"7"	"18.74"	"4.567"
##	"-2.57"	"7"	"18.74"	"4.567"
##	"-2.57"	"7"	"18.74"	"4.567"
##	"-2.573"	"50"	"69.72"	"7.665"
##	"-2.574"	"61"	"81.79"	"8.078"
##	"-2.574"	"4"	"14.12"	"3.932"
##	"-2.574"	"7"	"15.76"	"3.403"
##	"-2.576"	"1"	"7.73"	"2.613"
##	"-2.577"	"0"	"8.26"	"3.205"
##	"-2.578"	"0"	"5.27"	"2.044"
##	"-2.578"	"1"	"8.2"	"2.792"
##	"-2.579"	"2"	"9.49"	"2.904"
##	"-2.584"	"2"	"10.16"	"3.158"
##	"-2.592"	"3"	"12.4"	"3.627"
##	"-2.592"	"0"	"6.46"	"2.492"
##	"-2.595"	"0"	"5.3"	"2.042"
##	"-2.596"	"0"	"5.23"	"2.014"
##	"-2.598"	"38"	"59.59"	"8.31"
##	"-2.603"	"0"	"5.81"	"2.232"
##	"-2.612"	"0"	"5.5"	"2.106"
##	"-2.618"	"11"	"23.65"	"4.831"
##	"-2.618"	"2"	"11.52"	"3.636"
##	"-2.622"	"50"	"71.25"	"8.105"
##	"-2.625"	"145"	"175.51"	"11.622"
##	"-2.628"	"186"	"226.9"	"15.561"
##	"-2.63"	"2"	"11.38"	"3.567"
##	"-2.64"	"0"	"6.45"	"2.443"
##	"-2.642"	"0"	"6.92"	"2.62"
##	"-2.642"	"0"	"6.92"	"2.62"
##	"-2.642"	"0"	"6.92"	"2.62"
##	"-2.644"	"1"	"6.78"	"2.186"
##	"-2.644"	"0"	"6.1"	"2.307"
##	"-2.647"	"0"	"5.99"	"2.263"
##	"-2.649"	"0"	"6.92"	"2.612"
##	"-2.661"	"0"	"7.01"	"2.634"
##	"-2.664"	"4"	"12.78"	"3.295"

##	"-2.664"	"0"	"8.64"	"3.243"
##	"-2.665"	"2"	"9.91"	"2.968"
##	"-2.666"	"14"	"27.24"	"4.967"
##	"-2.667"	"3"	"12.78"	"3.667"
##	"-2.677"	"3"	"11.46"	"3.16"
##	"-2.679"	"0"	"5.8"	"2.165"
##	"-2.679"	"1"	"8.08"	"2.643"
##	"-2.679"	"1"	"8.36"	"2.747"
##	"-2.681"	"196"	"240.61"	"16.642"
##	"-2.681"	"0"	"6.58"	"2.454"
##	"-2.686"	"23"	"38.99"	"5.954"
##	"-2.69"	"3"	"9.95"	"2.583"
##	"-2.701"	"47"	"65.89"	"6.993"
##	"-2.703"	"11"	"24.68"	"5.061"
##	"-2.719"	"0"	"7.15"	"2.63"
##	"-2.721"	"9"	"22.81"	"5.075"
##	"-2.721"	"0"	"7.41"	"2.723"
##	"-2.728"	"1"	"8.84"	"2.873"
##	"-2.728"	"1"	"8.84"	"2.873"
##	"-2.737"	"43"	"63.51"	"7.493"
##	"-2.739"	"10"	"21.15"	"4.071"
##	"-2.757"	"0"	"6.05"	"2.194"
##	"-2.758"	"0"	"7.27"	"2.636"
##	"-2.766"	"4"	"15.54"	"4.172"
##	"-2.767"	"0"	"6.85"	"2.476"
##	"-2.769"	"1"	"8.37"	"2.662"
##	"-2.771"	"132"	"165.7"	"12.16"
##	"-2.774"	"7"	"18.07"	"3.991"
##	"-2.774"	"1"	"9.48"	"3.057"
##	"-2.776"	"0"	"7.94"	"2.86"
##	"-2.776"	"24"	"38.1"	"5.08"
##	"-2.779"	"19"	"35.57"	"5.962"
##	"-2.784"	"0"	"6.63"	"2.381"
##	"-2.785"	"113"	"142.55"	"10.612"
##	"-2.794"	"15"	"28.58"	"4.86"
##	"-2.797"	"0"	"6.49"	"2.32"
##	"-2.798"	"3"	"14.18"	"3.996"
##	"-2.801"	"1"	"8.2"	"2.57"
##	"-2.802"	"0"	"9.75"	"3.48"
##	"-2.809"	"1"	"8.73"	"2.752"
##	"-2.81"	"16"	"30.87"	"5.293"
##	"-2.814"	"0"	"9.52"	"3.383"
##	"-2.821"	"1"	"10.13"	"3.237"
##	"-2.822"	"0"	"9.34"	"3.31"
##	"-2.823"	"11"	"24.74"	"4.867"
##	"-2.833"	"6"	"16.55"	"3.724"
##	"-2.843"	"0"	"5.79"	"2.037"
##	"-2.843"	"2"	"9.93"	"2.79"
##	"-2.844"	"4"	"14.15"	"3.569"
##	"-2.85"	"0"	"6.12"	"2.147"
##	"-2.85"	"2"	"10.41"	"2.951"
##	"-2.85"	"3"	"12.67"	"3.394"
##	"-2.86"	"0"	"7.42"	"2.594"
##	"-2.862"	"0"	"7.16"	"2.501"

##	"-2.87"	"0"	"8.42"	"2.934"
##	"-2.871"	"0"	"8.38"	"2.919"
##	"-2.873"	"0"	"7.06"	"2.457"
##	"-2.875"	"1"	"9.75"	"3.043"
##	"-2.879"	"12"	"25.39"	"4.651"
##	"-2.885"	"0"	"8.23"	"2.853"
##	"-2.887"	"2"	"11"	"3.117"
##	"-2.89"	"0"	"7.77"	"2.689"
##	"-2.891"	"34"	"55.28"	"7.361"
##	"-2.894"	"1"	"9.41"	"2.906"
##	"-2.894"	"1"	"9.41"	"2.906"
##	"-2.899"	"1"	"12.13"	"3.839"
##	"-2.902"	"11"	"23.87"	"4.435"
##	"-2.903"	"0"	"7.11"	"2.449"
##	"-2.907"	"3"	"11.99"	"3.093"
##	"-2.908"	"19"	"33.83"	"5.099"
##	"-2.911"	"91"	"124.78"	"11.604"
##	"-2.913"	"4"	"13.93"	"3.409"
##	"-2.922"	"3"	"13.64"	"3.642"
##	"-2.923"	"20"	"37.08"	"5.843"
##	"-2.928"	"2"	"10.21"	"2.804"
##	"-2.93"	"10"	"23.1"	"4.471"
##	"-2.949"	"5"	"15.22"	"3.466"
##	"-2.951"	"0"	"6.37"	"2.159"
##	"-2.951"	"0"	"6.37"	"2.159"
##	"-2.951"	"0"	"6.37"	"2.159"
##	"-2.953"	"1"	"10.18"	"3.109"
##	"-2.955"	"0"	"8.34"	"2.822"
##	"-2.96"	"0"	"5.88"	"1.986"
##	"-2.962"	"28"	"46.24"	"6.158"
##	"-2.963"	"0"	"5.93"	"2.001"
##	"-2.964"	"63"	"92.65"	"10.002"
##	"-2.973"	"2"	"11.39"	"3.159"
##	"-2.978"	"0"	"7.76"	"2.606"
##	"-2.979"	"43"	"65.09"	"7.416"
##	"-2.983"	"12"	"25.42"	"4.5"
##	"-2.998"	"2"	"14.26"	"4.089"
##	"-3.001"	"0"	"7.54"	"2.512"
##	"-3.003"	"2"	"11.03"	"3.007"
##	"-3.004"	"2"	"10.65"	"2.879"
##	"-3.007"	"5"	"17.22"	"4.064"
##	"-3.011"	"4"	"14.9"	"3.62"
##	"-3.013"	"12"	"25.74"	"4.561"
##	"-3.027"	"0"	"9.43"	"3.115"
##	"-3.027"	"23"	"40.14"	"5.662"
##	"-3.037"	"143"	"183.98"	"13.493"
##	"-3.041"	"47"	"72.45"	"8.368"
##	"-3.047"	"3"	"13.92"	"3.584"
##	"-3.048"	"165"	"207.32"	"13.883"
##	"-3.049"	"49"	"77.49"	"9.343"
##	"-3.055"	"4"	"15.35"	"3.716"
##	"-3.062"	"14"	"30.21"	"5.294"
##	"-3.062"	"8"	"22.89"	"4.864"
##	"-3.069"	"2"	"11.89"	"3.222"

##	"-3.069"	"2"	"11.89"	"3.222"
##	"-3.069"	"0"	"11.6"	"3.779"
##	"-3.077"	"1"	"11.63"	"3.454"
##	"-3.078"	"1"	"11.54"	"3.424"
##	"-3.098"	"4"	"17.8"	"4.454"
##	"-3.101"	"42"	"67.79"	"8.316"
##	"-3.103"	"2"	"11.2"	"2.964"
##	"-3.106"	"112"	"149.13"	"11.955"
##	"-3.113"	"20"	"39.94"	"6.405"
##	"-3.124"	"2"	"11.07"	"2.903"
##	"-3.128"	"14"	"31.23"	"5.508"
##	"-3.14"	"4"	"16.28"	"3.911"
##	"-3.14"	"4"	"16.28"	"3.911"
##	"-3.14"	"4"	"16.28"	"3.911"
##	"-3.14"	"4"	"16.28"	"3.911"
##	"-3.147"	"15"	"34.2"	"6.1"
##	"-3.159"	"7"	"22.04"	"4.761"
##	"-3.163"	"23"	"43.58"	"6.506"
##	"-3.166"	"0"	"9.98"	"3.153"
##	"-3.171"	"41"	"68.07"	"8.537"
##	"-3.185"	"342"	"405.18"	"19.839"
##	"-3.195"	"11"	"24.17"	"4.122"
##	"-3.196"	"0"	"9.89"	"3.094"
##	"-3.198"	"2"	"12.97"	"3.43"
##	"-3.204"	"5"	"17.37"	"3.86"
##	"-3.212"	"5"	"18"	"4.048"
##	"-3.22"	"29"	"50.39"	"6.644"
##	"-3.223"	"4"	"15.95"	"3.707"
##	"-3.224"	"16"	"36.3"	"6.297"
##	"-3.228"	"0"	"9.31"	"2.884"
##	"-3.232"	"1"	"11.91"	"3.376"
##	"-3.232"	"0"	"10.46"	"3.236"
##	"-3.238"	"74"	"107.12"	"10.228"
##	"-3.239"	"3"	"17.45"	"4.462"
##	"-3.24"	"9"	"23.18"	"4.377"
##	"-3.241"	"7"	"20.84"	"4.27"
##	"-3.247"	"0"	"8.62"	"2.654"
##	"-3.248"	"2"	"13.06"	"3.405"
##	"-3.26"	"12"	"31.75"	"6.058"
##	"-3.262"	"95"	"129.74"	"10.649"
##	"-3.266"	"0"	"9.22"	"2.823"
##	"-3.273"	"10"	"26.84"	"5.146"
##	"-3.285"	"0"	"11.69"	"3.558"
##	"-3.285"	"66"	"100.89"	"10.622"
##	"-3.296"	"5"	"19.29"	"4.335"
##	"-3.315"	"0"	"10.19"	"3.074"
##	"-3.316"	"3"	"13.64"	"3.208"
##	"-3.331"	"0"	"11.77"	"3.533"
##	"-3.332"	"27"	"51.15"	"7.248"
##	"-3.343"	"7"	"19.81"	"3.832"
##	"-3.348"	"0"	"8.8"	"2.629"
##	"-3.348"	"15"	"34.12"	"5.711"
##	"-3.35"	"1"	"11.85"	"3.239"
##	"-3.36"	"2"	"16.18"	"4.22"

##	"-3.361"	"14"	"35.22"	"6.314"
##	"-3.368"	"1"	"11.75"	"3.192"
##	"-3.379"	"5"	"21.63"	"4.921"
##	"-3.382"	"11"	"25.56"	"4.305"
##	"-3.385"	"1"	"12.14"	"3.291"
##	"-3.419"	"0"	"9.62"	"2.813"
##	"-3.423"	"8"	"24.99"	"4.963"
##	"-3.429"	"276"	"345.9"	"20.387"
##	"-3.436"	"118"	"165.66"	"13.869"
##	"-3.444"	"27"	"49.49"	"6.53"
##	"-3.448"	"0"	"10.23"	"2.967"
##	"-3.453"	"0"	"10.99"	"3.183"
##	"-3.455"	"0"	"10.56"	"3.056"
##	"-3.459"	"14"	"37.3"	"6.735"
##	"-3.468"	"4"	"20.47"	"4.749"
##	"-3.468"	"4"	"20.47"	"4.749"
##	"-3.468"	"4"	"20.47"	"4.749"
##	"-3.47"	"37"	"62.04"	"7.217"
##	"-3.474"	"34"	"60.49"	"7.626"
##	"-3.476"	"0"	"12.82"	"3.688"
##	"-3.477"	"2"	"14.22"	"3.515"
##	"-3.478"	"0"	"11.97"	"3.442"
##	"-3.484"	"4"	"15.35"	"3.258"
##	"-3.488"	"2"	"16.87"	"4.263"
##	"-3.49"	"18"	"39.35"	"6.117"
##	"-3.497"	"84"	"118.44"	"9.848"
##	"-3.512"	"0"	"12.84"	"3.656"
##	"-3.528"	"38"	"66.44"	"8.062"
##	"-3.533"	"38"	"67.08"	"8.231"
##	"-3.534"	"102"	"144.96"	"12.155"
##	"-3.538"	"8"	"26.08"	"5.11"
##	"-3.549"	"4"	"17.16"	"3.708"
##	"-3.552"	"33"	"55.34"	"6.29"
##	"-3.56"	"0"	"12.28"	"3.45"
##	"-3.572"	"7"	"24.83"	"4.991"
##	"-3.574"	"8"	"24"	"4.477"
##	"-3.593"	"10"	"29.08"	"5.31"
##	"-3.594"	"19"	"37.16"	"5.053"
##	"-3.602"	"4"	"20.26"	"4.514"
##	"-3.607"	"0"	"13.06"	"3.62"
##	"-3.607"	"20"	"42.46"	"6.227"
##	"-3.618"	"2"	"16"	"3.869"
##	"-3.635"	"7"	"22.58"	"4.286"
##	"-3.642"	"115"	"155.27"	"11.058"
##	"-3.655"	"52"	"89.78"	"10.335"
##	"-3.656"	"0"	"10.8"	"2.954"
##	"-3.663"	"10"	"27.05"	"4.654"
##	"-3.675"	"0"	"12.6"	"3.429"
##	"-3.679"	"4"	"26.83"	"6.205"
##	"-3.686"	"45"	"71.95"	"7.312"
##	"-3.686"	"13"	"35.22"	"6.028"
##	"-3.688"	"34"	"63.49"	"7.997"
##	"-3.691"	"38"	"71.23"	"9.004"
##	"-3.696"	"0"	"11.87"	"3.212"

##	"-3.697"	"7"	"24.94"	"4.853"
##	"-3.697"	"1"	"14.94"	"3.771"
##	"-3.702"	"1"	"14.84"	"3.738"
##	"-3.714"	"23"	"51.96"	"7.798"
##	"-3.723"	"0"	"12.61"	"3.387"
##	"-3.726"	"1"	"13.19"	"3.271"
##	"-3.736"	"7"	"26.7"	"5.273"
##	"-3.738"	"4"	"22.47"	"4.941"
##	"-3.74"	"11"	"32.1"	"5.642"
##	"-3.754"	"2"	"18.46"	"4.384"
##	"-3.757"	"1"	"16.27"	"4.065"
##	"-3.762"	"0"	"13.41"	"3.565"
##	"-3.767"	"3"	"17.47"	"3.841"
##	"-3.806"	"23"	"51.16"	"7.399"
##	"-3.81"	"4"	"22.68"	"4.903"
##	"-3.815"	"0"	"14.23"	"3.73"
##	"-3.835"	"1"	"13.47"	"3.252"
##	"-3.845"	"15"	"41.54"	"6.903"
##	"-3.856"	"7"	"24.86"	"4.632"
##	"-3.874"	"0"	"12.16"	"3.139"
##	"-3.876"	"2"	"18.55"	"4.27"
##	"-3.885"	"53"	"92.44"	"10.152"
##	"-3.891"	"0"	"12.95"	"3.328"
##	"-3.912"	"1"	"18.15"	"4.384"
##	"-3.919"	"18"	"43.73"	"6.566"
##	"-3.925"	"11"	"31.35"	"5.184"
##	"-3.928"	"0"	"9.39"	"2.391"
##	"-3.928"	"2"	"16.07"	"3.582"
##	"-3.93"	"0"	"16.86"	"4.29"
##	"-3.937"	"2"	"17.07"	"3.828"
##	"-3.94"	"3"	"21.04"	"4.579"
##	"-3.947"	"10"	"29.79"	"5.014"
##	"-3.95"	"0"	"17.86"	"4.522"
##	"-3.961"	"3"	"17.32"	"3.615"
##	"-3.969"	"5"	"21.13"	"4.064"
##	"-3.974"	"7"	"26.79"	"4.979"
##	"-3.978"	"2"	"16.83"	"3.728"
##	"-3.982"	"5"	"24.04"	"4.782"
##	"-3.985"	"46"	"81.99"	"9.03"
##	"-3.985"	"7"	"26.13"	"4.8"
##	"-3.987"	"40"	"72.89"	"8.25"
##	"-3.988"	"14"	"39.45"	"6.382"
##	"-3.99"	"3"	"20.96"	"4.501"
##	"-4.005"	"62"	"101.49"	"9.86"
##	"-4.01"	"0"	"14.3"	"3.566"
##	"-4.015"	"6"	"25.55"	"4.869"
##	"-4.046"	"69"	"112.92"	"10.855"
##	"-4.054"	"0"	"13.03"	"3.214"
##	"-4.054"	"0"	"13.03"	"3.214"
##	"-4.059"	"53"	"88.39"	"8.719"
##	"-4.078"	"6"	"32.27"	"6.441"
##	"-4.08"	"46"	"79.98"	"8.328"
##	"-4.106"	"6"	"28.81"	"5.555"
##	"-4.113"	"5"	"26.25"	"5.167"

##	"-4.135"	"5"	"22.82"	"4.31"
##	"-4.136"	"2"	"20.03"	"4.359"
##	"-4.162"	"2"	"22.68"	"4.968"
##	"-4.172"	"4"	"23.73"	"4.729"
##	"-4.173"	"36"	"71.43"	"8.49"
##	"-4.186"	"5"	"21.27"	"3.887"
##	"-4.198"	"13"	"39.69"	"6.358"
##	"-4.2"	"6"	"25.54"	"4.652"
##	"-4.204"	"276"	"352.81"	"18.271"
##	"-4.225"	"52"	"93.78"	"9.889"
##	"-4.229"	"40"	"74.86"	"8.243"
##	"-4.23"	"0"	"18.86"	"4.459"
##	"-4.235"	"8"	"32.39"	"5.759"
##	"-4.24"	"25"	"56.76"	"7.49"
##	"-4.244"	"37"	"75.2"	"9.001"
##	"-4.262"	"13"	"33.53"	"4.817"
##	"-4.263"	"6"	"25.9"	"4.668"
##	"-4.278"	"17"	"44.78"	"6.494"
##	"-4.28"	"26"	"59.36"	"7.795"
##	"-4.283"	"7"	"29.68"	"5.295"
##	"-4.311"	"2"	"20.13"	"4.206"
##	"-4.312"	"29"	"68.6"	"9.183"
##	"-4.313"	"1"	"23.38"	"5.189"
##	"-4.32"	"0"	"14.43"	"3.34"
##	"-4.322"	"10"	"35.79"	"5.967"
##	"-4.335"	"377"	"467.47"	"20.869"
##	"-4.341"	"4"	"24.94"	"4.824"
##	"-4.349"	"5"	"24.19"	"4.412"
##	"-4.361"	"2"	"17.01"	"3.442"
##	"-4.429"	"36"	"75.68"	"8.959"
##	"-4.438"	"7"	"25.99"	"4.279"
##	"-4.442"	"10"	"35.29"	"5.693"
##	"-4.448"	"4"	"23.73"	"4.436"
##	"-4.449"	"11"	"44.36"	"7.499"
##	"-4.454"	"8"	"35.15"	"6.096"
##	"-4.456"	"1"	"22.52"	"4.829"
##	"-4.463"	"9"	"31.72"	"5.091"
##	"-4.475"	"21"	"48.89"	"6.233"
##	"-4.5"	"0"	"18.53"	"4.118"
##	"-4.506"	"55"	"91.74"	"8.153"
##	"-4.528"	"8"	"32.38"	"5.384"
##	"-4.544"	"10"	"34.31"	"5.35"
##	"-4.56"	"37"	"76.42"	"8.645"
##	"-4.565"	"406"	"502.77"	"21.2"
##	"-4.57"	"0"	"16.8"	"3.676"
##	"-4.571"	"10"	"38.45"	"6.224"
##	"-4.576"	"31"	"69.73"	"8.464"
##	"-4.578"	"2"	"21.47"	"4.253"
##	"-4.582"	"0"	"18.37"	"4.009"
##	"-4.589"	"5"	"26.62"	"4.711"
##	"-4.597"	"0"	"22.34"	"4.86"
##	"-4.6"	"195"	"257.75"	"13.642"
##	"-4.633"	"3"	"20.96"	"3.877"
##	"-4.669"	"6"	"28.84"	"4.892"

##	"-4.671"	"7"	"31.04"	"5.146"
##	"-4.671"	"0"	"13.35"	"2.858"
##	"-4.68"	"49"	"86.51"	"8.016"
##	"-4.741"	"5"	"28.15"	"4.883"
##	"-4.75"	"8"	"30.28"	"4.691"
##	"-4.765"	"1"	"24.99"	"5.034"
##	"-4.804"	"17"	"44.14"	"5.65"
##	"-4.845"	"25"	"65.61"	"8.382"
##	"-4.847"	"0"	"23.38"	"4.824"
##	"-4.857"	"19"	"55.34"	"7.482"
##	"-4.865"	"55"	"108.64"	"11.027"
##	"-4.866"	"1"	"24.53"	"4.836"
##	"-4.873"	"75"	"127.69"	"10.813"
##	"-4.88"	"93"	"144.63"	"10.581"
##	"-4.88"	"49"	"93.37"	"9.093"
##	"-4.927"	"846"	"993.78"	"29.993"
##	"-4.929"	"31"	"69.94"	"7.901"
##	"-4.946"	"33"	"71.53"	"7.791"
##	"-4.952"	"443"	"568.51"	"25.345"
##	"-4.968"	"11"	"36.54"	"5.141"
##	"-5.025"	"16"	"53.78"	"7.519"
##	"-5.04"	"9"	"41.4"	"6.429"
##	"-5.047"	"29"	"72.06"	"8.533"
##	"-5.105"	"6"	"34.7"	"5.622"
##	"-5.118"	"39"	"87.86"	"9.547"
##	"-5.174"	"0"	"28.06"	"5.423"
##	"-5.207"	"2"	"26.84"	"4.771"
##	"-5.21"	"142"	"223.3"	"15.605"
##	"-5.251"	"102"	"173.39"	"13.594"
##	"-5.276"	"15"	"49.55"	"6.548"
##	"-5.305"	"16"	"54.97"	"7.346"
##	"-5.314"	"416"	"546.98"	"24.65"
##	"-5.316"	"8"	"48.93"	"7.699"
##	"-5.338"	"77"	"138.96"	"11.606"
##	"-5.38"	"13"	"46.56"	"6.238"
##	"-5.393"	"0"	"28.13"	"5.216"
##	"-5.4"	"3"	"36.05"	"6.121"
##	"-5.424"	"18"	"58.61"	"7.487"
##	"-5.425"	"2"	"30.37"	"5.229"
##	"-5.428"	"101"	"172.02"	"13.084"
##	"-5.429"	"493"	"628.12"	"24.889"
##	"-5.433"	"69"	"127.57"	"10.781"
##	"-5.479"	"5"	"36.55"	"5.758"
##	"-5.494"	"181"	"282.18"	"18.416"
##	"-5.505"	"19"	"67.87"	"8.878"
##	"-5.519"	"22"	"59.78"	"6.845"
##	"-5.56"	"0"	"21.26"	"3.823"
##	"-5.561"	"27"	"81.55"	"9.81"
##	"-5.57"	"229"	"321.09"	"16.534"
##	"-5.59"	"52"	"112.22"	"10.774"
##	"-5.602"	"5"	"39.5"	"6.159"
##	"-5.621"	"41"	"89.94"	"8.707"
##	"-5.647"	"15"	"50.53"	"6.292"
##	"-5.654"	"1"	"35.74"	"6.144"

##	"-5.719"	"249"	"366.68"	"20.576"
##	"-5.741"	"1"	"33.18"	"5.606"
##	"-5.78"	"68"	"126.28"	"10.084"
##	"-5.793"	"0"	"37.59"	"6.489"
##	"-5.832"	"8"	"41.9"	"5.813"
##	"-5.899"	"2"	"43.77"	"7.081"
##	"-5.938"	"266"	"373.81"	"18.156"
##	"-5.938"	"62"	"128.53"	"11.204"
##	"-5.954"	"6"	"42.47"	"6.126"
##	"-6.049"	"2"	"34.29"	"5.338"
##	"-6.064"	"62"	"125.3"	"10.438"
##	"-6.071"	"38"	"100.45"	"10.286"
##	"-6.087"	"19"	"73.05"	"8.879"
##	"-6.129"	"25"	"81.8"	"9.268"
##	"-6.156"	"0"	"35.1"	"5.702"
##	"-6.19"	"16"	"63.67"	"7.702"
##	"-6.193"	"17"	"61.8"	"7.233"
##	"-6.212"	"90"	"157.76"	"10.907"
##	"-6.22"	"0"	"24.93"	"4.008"
##	"-6.221"	"37"	"82.69"	"7.344"
##	"-6.239"	"64"	"127.62"	"10.197"
##	"-6.255"	"601"	"749.06"	"23.669"
##	"-6.359"	"15"	"66.48"	"8.096"
##	"-6.364"	"64"	"149.75"	"13.475"
##	"-6.404"	"113"	"205.73"	"14.479"
##	"-6.405"	"0"	"51.89"	"8.101"
##	"-6.411"	"0"	"46.76"	"7.293"
##	"-6.519"	"70"	"152.54"	"12.661"
##	"-6.578"	"0"	"41.6"	"6.325"
##	"-6.665"	"59"	"124.92"	"9.89"
##	"-6.707"	"11"	"67.3"	"8.394"
##	"-6.747"	"140"	"237.55"	"14.457"
##	"-6.778"	"45"	"118.14"	"10.791"
##	"-6.817"	"45"	"114.09"	"10.136"
##	"-6.863"	"196"	"317.51"	"17.705"
##	"-6.868"	"552"	"719.61"	"24.406"
##	"-6.942"	"1"	"39.7"	"5.575"
##	"-6.99"	"8"	"55.73"	"6.828"
##	"-6.992"	"43"	"120.64"	"11.104"
##	"-7.171"	"41"	"106.83"	"9.18"
##	"-7.179"	"0"	"61.62"	"8.583"
##	"-7.313"	"157"	"277.22"	"16.438"
##	"-7.352"	"113"	"208.97"	"13.053"
##	"-7.385"	"17"	"77.89"	"8.245"
##	"-7.387"	"8"	"60.65"	"7.127"
##	"-7.517"	"30"	"126.32"	"12.814"
##	"-7.522"	"412"	"598.15"	"24.747"
##	"-7.569"	"4792"	"5501.34"	"93.718"
##	"-7.572"	"13"	"63.98"	"6.733"
##	"-7.649"	"382"	"593.41"	"27.638"
##	"-7.705"	"61"	"151.94"	"11.802"
##	"-7.714"	"31"	"112.48"	"10.562"
##	"-7.746"	"9"	"98.53"	"11.558"
##	"-7.783"	"92"	"186.54"	"12.148"

```
##      "-7.811"  "32"    "115.08"  "10.636"
##      "-7.812"  "34"    "122.48"  "11.326"
##      "-7.89"   "227"   "379.06"  "19.271"
##      "-7.921"  "172"   "276.48"  "13.191"
##      "-7.936"  "38"    "117.45"  "10.011"
##      "-7.96"   "41"    "112.78"  "9.018"
##      "-8.058"  "489"   "685.17"  "24.344"
##      "-8.159"  "254"   "407.11"  "18.766"
##      "-8.222"  "5"     "78.61"   "8.953"
##      "-8.305"  "108"   "224"     "13.968"
##      "-8.324"  "86"    "197.05"  "13.34"
##      "-8.378"  "2"     "76.67"   "8.913"
##      "-8.398"  "2"     "76.4"    "8.859"
##      "-8.417"  "82"    "209.45"  "15.143"
##      "-8.584"  "155"   "292.13"  "15.975"
##      "-8.648"  "153"   "279.87"  "14.671"
##      "-8.815"  "103"   "230.79"  "14.497"
##      "-8.883"  "27"    "121.2"   "10.604"
##      "-8.957"  "33"    "127.42"  "10.542"
##      "-9.274"  "1026"  "1341.62" "34.033"
##      "-9.29"   "3"     "88.81"   "9.237"
##      "-9.305"  "61"    "173.43"  "12.083"
##      "-9.338"  "57"    "160.77"  "11.113"
##      "-9.395"  "36"    "124.06"  "9.373"
##      "-9.45"   "1"     "78.27"   "8.177"
##      "-9.562"  "3"     "80.47"   "8.102"
##      "-9.617"  "101"   "249.93"  "15.487"
##      "-9.651"  "100"   "241.24"  "14.634"
##      "-10.064" "3"     "85.35"   "8.183"
##      "-10.153" "555"   "864.22"  "30.456"
##      "-10.195" "2570"  "3161.45" "58.016"
##      "-10.276" "1181"  "1541.13" "35.047"
##      "-10.641" "0"     "105.92"  "9.954"
##      "-10.652" "254"   "525.79"  "25.515"
##      "-11.368" "91"    "246.66"  "13.692"
##      "-11.404" "321"   "573.88"  "22.175"
##      "-11.534" "2"     "114.22"  "9.729"
##      "-12.003" "468"   "777.18"  "25.759"
##      "-12.049" "810"   "1174.76" "30.272"
##      "-12.1"   "619"   "1028.87" "33.874"
##      "-13.794" "17894"  "19099.7" "87.411"
##      "-15.521" "686"   "1156.59" "30.319"
##      "-19.089" "690"   "1297.68" "31.833"
##      "-26.78"  "1880"  "3424.3"  "57.666"
##      "-26.82"  "14"    "594.76"  "21.654"
##      "-33.911" "852"   "2379.03" "45.03"
```

```
write.table(mf.enriched.terms, file="output/genes.mf.txt", sep="\t", row.names = F, col.names = F, quot
```