

# SummarizedExperiment Tutorial-Assignment3Brukt

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```
knitr::opts_knit$set(root.dir = normalizePath("/home1/tefera/490_cluster/analysis_data"))

knitr::opts_knit$set(root.dir = normalizePath("/home1/tefera/490_cluster/analysis_data"))
knitr::opts_chunk$set(message = FALSE, warning = FALSE)

if (!require("SummarizedExperiment", quietly = TRUE))
  BiocManager::install("SummarizedExperiment")

##
## Attaching package: 'MatrixGenerics'

## The following objects are masked from 'package:matrixStats':
##
##   colAlls, colAnyNAs, colAnys, colAvgsPerRowSet, colCollapse,
##   colCounts, colCummaxs, colCummins, colCumprods, colCumsums,
##   colDiffs, colIQRDiffs, colIQRs, colLogSumExps, colMadDiffs,
##   colMads, colMaxs, colMeans2, colMedians, colMins, colOrderStats,
##   colProds, colQuantiles, colRanges, colRanks, colSdDiffs, colSds,
##   colSums2, colTabulates, colVarDiffs, colVars, colWeightedMads,
##   colWeightedMeans, colWeightedMedians, colWeightedSds,
##   colWeightedVars, rowAlls, rowAnyNAs, rowAnys, rowAvgsPerColSet,
##   rowCollapse, rowCounts, rowCummaxs, rowCummins, rowCumprods,
##   rowCumsums, rowDiffs, rowIQRDiffs, rowIQRs, rowLogSumExps,
##   rowMadDiffs, rowMads, rowMaxs, rowMeans2, rowMedians, rowMins,
##   rowOrderStats, rowProds, rowQuantiles, rowRanges, rowRanks,
##   rowSdDiffs, rowSds, rowSums2, rowTabulates, rowVarDiffs, rowVars,
##   rowWeightedMads, rowWeightedMeans, rowWeightedMedians,
##   rowWeightedSds, rowWeightedVars
##
## Attaching package: 'generics'

## The following objects are masked from 'package:base':
##
##   as.difftime, as.factor, as.ordered, intersect, is.element, setdiff,
##   setequal, union
##
## Attaching package: 'BiocGenerics'

## The following objects are masked from 'package:stats':
##
##   IQR, mad, sd, var, xtabs
## The following objects are masked from 'package:base':
##
```

```
##      anyDuplicated, aperm, append, as.data.frame, basename, cbind,
##      colnames, dirname, do.call, duplicated, eval, evalq, Filter, Find,
##      get, grep, grepl, is.unsorted, lapply, Map, mapply, match, mget,
##      order, paste, pmax, pmax.int, pmin, pmin.int, Position, rank,
##      rbind, Reduce, rownames, sapply, saveRDS, table, tapply, unique,
##      unsplit, which.max, which.min

##
## Attaching package: 'S4Vectors'

## The following object is masked from 'package:utils':
##
##      findMatches

## The following objects are masked from 'package:base':
##
##      expand.grid, I, unname

## 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 object is masked from 'package:MatrixGenerics':
##
##      rowMedians

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

if (!require("TCGAbiolinks", quietly = TRUE))
  BiocManager::install("TCGAbiolinks")
if (!require("GenomicRanges", quietly = TRUE))
  BiocManager::install("GenomicRanges")

suppressPackageStartupMessages({
  library(SummarizedExperiment)
  library(TCGAbiolinks)
  library(GenomicRanges)
})
```

Load in the RNAseq data

```
rna_clinical <- read.csv("/home1/tefera/analysis_data/BRCA_rna_clinical.csv")
rna_genes <- read.csv("/home1/tefera/analysis_data/BRCA_rna_genes.csv")
rna_counts <- read.csv("/home1/tefera/analysis_data/BRCA_rna_counts.csv", row.names = 1)

gr <- GRanges(seqnames = Rle("chr1", nrow(rna_genes)),
              ranges = IRanges(start = 1:nrow(rna_genes), width = 1),
              gene_id = rna_genes$gene_id)

#Build the SummarizedExperiment object
colnames(rna_counts) <- gsub("\\.", "-", colnames(rna_counts))
colnames(rna_counts) <- substr(colnames(rna_counts), 1, 12)
```

```

rna_clinical$patient_id <- substr(rna_clinical$patient, 1, 12)
common_samples <- intersect(colnames(rna_counts), rna_clinical$patient_id)
rna_counts <- rna_counts[, common_samples]
rna_clinical <- rna_clinical[rna_clinical$patient_id %in% common_samples, ]
rna_clinical <- rna_clinical[match(common_samples, rna_clinical$patient_id), ]

rna_se <- SummarizedExperiment(
  assays = list(unstranded = as.matrix(rna_counts)),
  colData = DataFrame(rna_clinical),
  rowRanges = gr
)

# Quick check
dim(rna_clinical)

## [1] 1095    87

dim(rna_genes)

## [1] 60660    11

dim(rna_counts)

## [1] 60660  1095

```

#### (1) Summarized Experiment Basics

Let's take a look at `rna_se` (RNA Summarized Experiment). Call `head()` and `str()`. Also explore the data frame by double clicking on it from the Environment panel (or calling `View(rna_se)`).

```

head(rna_clinical)

##               X                barcode      patient
## 1 TCGA-5L-AATO-01A-12R-A41B-07 TCGA-5L-AATO-01A-12R-A41B-07 TCGA-5L-AATO
## 2 TCGA-A2-A04U-01A-11R-A115-07 TCGA-A2-A04U-01A-11R-A115-07 TCGA-A2-A04U
## 3 TCGA-AN-A04A-01A-21R-A034-07 TCGA-AN-A04A-01A-21R-A034-07 TCGA-AN-A04A
## 4 TCGA-A7-A13D-01A-13R-A12P-07 TCGA-A7-A13D-01A-13R-A12P-07 TCGA-A7-A13D
## 5 TCGA-BH-A201-01A-11R-A14M-07 TCGA-BH-A201-01A-11R-A14M-07 TCGA-BH-A201
## 6 TCGA-BH-A0H6-01A-21R-A056-07 TCGA-BH-A0H6-01A-21R-A056-07 TCGA-BH-A0H6
##      sample shortLetterCode      definition sample_submitter_id
## 1 TCGA-5L-AATO-01A          TP Primary solid Tumor      TCGA-5L-AATO-01A
## 2 TCGA-A2-A04U-01A          TP Primary solid Tumor      TCGA-A2-A04U-01A
## 3 TCGA-AN-A04A-01A          TP Primary solid Tumor      TCGA-AN-A04A-01A
## 4 TCGA-A7-A13D-01A          TP Primary solid Tumor      TCGA-A7-A13D-01A
## 5 TCGA-BH-A201-01A          TP Primary solid Tumor      TCGA-BH-A201-01A
## 6 TCGA-BH-A0H6-01A          TP Primary solid Tumor      TCGA-BH-A0H6-01A
##  sample_type_id tumor_descriptor      sample_id
## 1              1          Primary 8434f4a2-0ead-40f6-9b63-9c958a3fb812
## 2              1          Primary e1df2e78-ade5-4ff7-a636-95c79e23b942
## 3              1          Primary 1d8f72b7-8596-40e8-afdf-244dd897758c
## 4              1          Primary 79fc9ed3-4e96-4c0e-869e-1756cbdabb39
## 5              1          Primary 7893162b-3d19-4c54-86ee-aa4884d84e8a
## 6              1          Primary b2921c9d-c655-46f3-86e5-2fc2bed1ed33
##  submitter_id  sample_type oct_embedded specimen_type  state is_ffpe
## 1 TCGA-5L-AATO Primary Tumor          false Solid Tissue released  FALSE

```

|      |                                  |                                      |                           |                       |       |
|------|----------------------------------|--------------------------------------|---------------------------|-----------------------|-------|
| ## 2 | TCGA-A2-A04U                     | Primary Tumor                        | true                      | Solid Tissue released | FALSE |
| ## 3 | TCGA-AN-A04A                     | Primary Tumor                        | true                      | Solid Tissue released | FALSE |
| ## 4 | TCGA-A7-A13D                     | Primary Tumor                        | false                     | Solid Tissue released | FALSE |
| ## 5 | TCGA-BH-A201                     | Primary Tumor                        | true                      | Solid Tissue released | FALSE |
| ## 6 | TCGA-BH-A0H6                     | Primary Tumor                        | true                      | Solid Tissue released | FALSE |
| ##   | tissue_type                      | preservation_method                  | composition               | days_to_collection    |       |
| ## 1 | Tumor                            | Unknown                              | Not Reported              | 1320                  |       |
| ## 2 | Tumor                            | OCT                                  | Not Reported              | 1924                  |       |
| ## 3 | Tumor                            | OCT                                  | Not Reported              | 743                   |       |
| ## 4 | Tumor                            | Unknown                              | Not Reported              | 240                   |       |
| ## 5 | Tumor                            | OCT                                  | Not Reported              | 86                    |       |
| ## 6 | Tumor                            | OCT                                  | Not Reported              | 583                   |       |
| ##   | initial_weight                   | pathology_report_uuid                | synchronous_malignancy    |                       |       |
| ## 1 | 80                               | F9B6971F-23C0-465F-BFEC-778BF228A1AE | Not Reported              |                       |       |
| ## 2 | 170                              | B14456B1-4992-492D-AFB5-4F975F20A277 | No                        |                       |       |
| ## 3 | 370                              | 6FB7A794-C3E7-4501-A844-CF65B9C3D32C | No                        |                       |       |
| ## 4 | 240                              | 6F3784B2-4A75-447C-9EAE-F146461C737E | No                        |                       |       |
| ## 5 | 120                              | 6AE92F6F-E29D-43B6-AF1E-F15720C1AAE8 | No                        |                       |       |
| ## 6 | 330                              | 93292768-8C20-4551-8CA8-44AE0FFB487E | No                        |                       |       |
| ##   | ajcc_pathologic_stage            | days_to_diagnosis                    | last_known_disease_status |                       |       |
| ## 1 | Stage IIA                        | 0                                    | not reported              |                       |       |
| ## 2 | Stage IIA                        | 0                                    | not reported              |                       |       |
| ## 3 | Stage IIIA                       | 0                                    | not reported              |                       |       |
| ## 4 | Stage IIA                        | 0                                    | not reported              |                       |       |
| ## 5 | Stage IA                         | 0                                    | not reported              |                       |       |
| ## 6 | Stage I                          | 0                                    | not reported              |                       |       |
| ##   | tissue_or_organ_of_origin        | days_to_last_follow_up               | age_at_diagnosis          |                       |       |
| ## 1 | Breast, NOS                      | 1477                                 | 15393                     |                       |       |
| ## 2 | Breast, NOS                      | 2654                                 | 17474                     |                       |       |
| ## 3 | Breast, NOS                      | 90                                   | 13445                     |                       |       |
| ## 4 | Breast, NOS                      | 965                                  | 17070                     |                       |       |
| ## 5 | Breast, NOS                      | 856                                  | 23423                     |                       |       |
| ## 6 | Breast, NOS                      | 747                                  | 30125                     |                       |       |
| ##   | primary_diagnosis                | prior_malignancy                     | year_of_diagnosis         |                       |       |
| ## 1 | Lobular carcinoma, NOS           | yes                                  | 2010                      |                       |       |
| ## 2 | Infiltrating duct carcinoma, NOS | no                                   | 2004                      |                       |       |
| ## 3 | Infiltrating duct carcinoma, NOS | no                                   | 2008                      |                       |       |
| ## 4 | Infiltrating duct carcinoma, NOS | no                                   | 2010                      |                       |       |
| ## 5 | Infiltrating duct carcinoma, NOS | no                                   | 2011                      |                       |       |
| ## 6 | Infiltrating duct carcinoma, NOS | no                                   | 2008                      |                       |       |
| ##   | prior_treatment                  | ajcc_pathologic_t                    | morphology                | ajcc_pathologic_n     |       |
| ## 1 | No                               | T2                                   | 8520/3                    | N0                    |       |
| ## 2 | No                               | T2                                   | 8500/3                    | N0 (i+)               |       |
| ## 3 | No                               | T2                                   | 8500/3                    | N2                    |       |
| ## 4 | No                               | T2                                   | 8500/3                    | N0 (i-)               |       |
| ## 5 | No                               | T1                                   | 8500/3                    | N0                    |       |
| ## 6 | No                               | T1b                                  | 8500/3                    | NX                    |       |
| ##   | ajcc_pathologic_m                | classification_of_tumor              |                           |                       |       |
| ## 1 | M0                               | not reported                         |                           |                       |       |
| ## 2 | M0                               | not reported                         |                           |                       |       |
| ## 3 | M0                               | not reported                         |                           |                       |       |
| ## 4 | M0                               | not reported                         |                           |                       |       |
| ## 5 | M0                               | not reported                         |                           |                       |       |
| ## 6 | M0                               | not reported                         |                           |                       |       |

|      | diagnosis_id                         | icd_10_code | site_of_resection_or_biopsy |
|------|--------------------------------------|-------------|-----------------------------|
| ## 1 | ebff6a7b-3b6c-5f71-86b0-1bdd3b78edd4 | C50.9       | Breast, NOS                 |
| ## 2 | d92ce116-f652-5954-8bb2-8805dfe0cad4 | C50.9       | Breast, NOS                 |
| ## 3 | d8bb25db-6f52-5c39-8de7-b5a260b01a50 | C50.9       | Breast, NOS                 |
| ## 4 | c1c9d637-73fb-53a3-a529-8597fd532db2 | C50.9       | Breast, NOS                 |
| ## 5 | 435e28a7-3f2f-513d-a32c-642abfb9c011 | C50.9       | Breast, NOS                 |
| ## 6 | 8bc21167-2003-5371-af51-1033283979aa | C50.9       | Breast, NOS                 |

  

|      | tumor_grade  | progression_or_recurrence | ajcc_staging_system_edition |
|------|--------------|---------------------------|-----------------------------|
| ## 1 | Not Reported | not reported              | 7th                         |
| ## 2 | Not Reported | not reported              | 6th                         |
| ## 3 | Not Reported | not reported              | 7th                         |
| ## 4 | Not Reported | not reported              | <NA>                        |
| ## 5 | Not Reported | not reported              | 7th                         |
| ## 6 | Not Reported | not reported              | <NA>                        |

  

|      | alcohol_history | exposure_id                          |
|------|-----------------|--------------------------------------|
| ## 1 | Not Reported    | 47c9213f-b2b8-5297-a0b6-21bce2cfa3f8 |
| ## 2 | Not Reported    | 3a8d2c83-9739-5914-a93a-bac0c62ca837 |
| ## 3 | Not Reported    | dd778cc5-e616-5df9-831e-de6f604b9c00 |
| ## 4 | Not Reported    | 55c789e6-7c2f-5341-b55e-ea2bd97344a2 |
| ## 5 | Not Reported    | 2614a0b7-3c46-5274-b003-6ee551efe5c5 |
| ## 6 | Not Reported    | f777d3d8-8a84-5fcb-918d-9de0711c912f |

  

|      | race                      | gender | ethnicity              | vital_status |
|------|---------------------------|--------|------------------------|--------------|
| ## 1 | white                     | female | hispanic or latino     | Alive        |
| ## 2 | white                     | female | not hispanic or latino | Alive        |
| ## 3 | white                     | female | not hispanic or latino | Alive        |
| ## 4 | black or african american | female | not hispanic or latino | Alive        |
| ## 5 | white                     | female | not hispanic or latino | Alive        |
| ## 6 | white                     | female | not reported           | Alive        |

  

|      | age_at_index | days_to_birth | year_of_birth | demographic_id                       |
|------|--------------|---------------|---------------|--------------------------------------|
| ## 1 | 42           | -15393        | 1968          | 776bb6f9-f5c8-57b6-bf4d-4014b8025a06 |
| ## 2 | 47           | -17474        | 1957          | 9145b76c-61b5-56e6-876e-58e731d45680 |
| ## 3 | 36           | -13445        | 1972          | 8280698c-0bcd-5700-99b6-1d25522e54f0 |
| ## 4 | 46           | -17070        | 1964          | 89b768dc-7db6-56df-a9a9-1dd1832e3a8b |
| ## 5 | 64           | -23423        | 1947          | df8ec77d-82d8-5682-9a82-7eb1592c9d82 |
| ## 6 | 82           | -30125        | 1926          | 375d23f8-3845-59cd-a050-995f13ca33e4 |

  

|      | days_to_death | bcr_patient_barcode | project_id                          | name |
|------|---------------|---------------------|-------------------------------------|------|
| ## 1 | NA            | TCGA-5L-AATO-01A    | TCGA-BRCA Breast Invasive Carcinoma |      |
| ## 2 | NA            | TCGA-A2-A04U-01A    | TCGA-BRCA Breast Invasive Carcinoma |      |
| ## 3 | NA            | TCGA-AN-A04A-01A    | TCGA-BRCA Breast Invasive Carcinoma |      |
| ## 4 | NA            | TCGA-A7-A13D-01A    | TCGA-BRCA Breast Invasive Carcinoma |      |
| ## 5 | NA            | TCGA-BH-A201-01A    | TCGA-BRCA Breast Invasive Carcinoma |      |
| ## 6 | NA            | TCGA-BH-A0H6-01A    | TCGA-BRCA Breast Invasive Carcinoma |      |

  

|      | releasable | released | year_of_death | days_to_sample_procurement | paper_patient |
|------|------------|----------|---------------|----------------------------|---------------|
| ## 1 | TRUE       | TRUE     | NA            | NA                         | TCGA-5L-AATO  |
| ## 2 | TRUE       | TRUE     | NA            | NA                         | TCGA-A2-A04U  |
| ## 3 | TRUE       | TRUE     | NA            | NA                         | TCGA-AN-A04A  |
| ## 4 | TRUE       | TRUE     | NA            | NA                         | TCGA-A7-A13D  |
| ## 5 | TRUE       | TRUE     | NA            | NA                         | TCGA-BH-A201  |
| ## 6 | TRUE       | TRUE     | NA            | NA                         | TCGA-BH-A0H6  |

  

|      | paper_Tumor.Type | paper_Included_in_previous_marker_papers | paper_vital_status |
|------|------------------|--|--------------------|
| ## 1 | BRCA             | NO                                       | Alive              |
| ## 2 | BRCA             | YES                                      | Alive              |
| ## 3 | BRCA             | YES                                      | Alive              |
| ## 4 | BRCA             | YES                                      | Alive              |

|      |   |                         |                                |
|------|---|-------------------------|--------------------------------|
| ## 5 | BRCA                                      | YES                     | Alive                          |
| ## 6 | BRCA                                      | YES                     | Alive                          |
| ##   | paper_days_to_birth                       | paper_days_to_death     | paper_days_to_last_followup    |
| ## 1 | -15393                                    | NA                      | 1477                           |
| ## 2 | -17474                                    | NA                      | 2654                           |
| ## 3 | -13445                                    | NA                      | 90                             |
| ## 4 | -17070                                    | NA                      | 965                            |
| ## 5 | -23423                                    | NA                      | 856                            |
| ## 6 | -30125                                    | NA                      | 747                            |
| ##   | paper_age_at_initial_pathologic_diagnosis | paper_pathologic_stage  |                                |
| ## 1 |   | 42                      | Stage_II                       |
| ## 2 |   | 47                      | Stage_II                       |
| ## 3 |   | 36                      | Stage_III                      |
| ## 4 |   | 46                      | Stage_II                       |
| ## 5 |   | 64                      | Stage_I                        |
| ## 6 |   | 82                      | Stage_I                        |
| ##   | paper_Tumor_Grade                         | paper_BRCA_Pathology    | paper_BRCA_Subtype_PAM50       |
| ## 1 | NA  | <NA>                    | LumA                           |
| ## 2 | NA  | IDC                     | Basal                          |
| ## 3 | NA  | <NA>                    | LumA                           |
| ## 4 | NA  | IDC                     | Basal                          |
| ## 5 | NA  | IDC                     | LumA                           |
| ## 6 | NA  | Other                   | LumA                           |
| ##   | paper_MSI_status                          | paper_HPV_Status        | paper_tobacco_smoking_history  |
| ## 1 | NA  | NA                      | NA                             |
| ## 2 | NA  | NA                      | NA                             |
| ## 3 | NA  | NA                      | NA                             |
| ## 4 | NA  | NA                      | NA                             |
| ## 5 | NA  | NA                      | NA                             |
| ## 6 | NA  | NA                      | NA                             |
| ##   | paper_CNV.Clusters                        | paper_Mutation.Clusters | paper_DNA.Methylation.Clusters |
| ## 1 | C1  | C9                      | C1                             |
| ## 2 | C6  | C1                      | C4                             |
| ## 3 | C6  | C1                      | C1                             |
| ## 4 | C4  | C1                      | C4                             |
| ## 5 | C5  | C4                      | C1                             |
| ## 6 | C5  | C1                      | C1                             |
| ##   | paper_mRNA.Clusters                       | paper_miRNA.Clusters    | paper_lncRNA.Clusters          |
| ## 1 | C2  | C2                      | <NA>                           |
| ## 2 | C4  | C7                      | C2                             |
| ## 3 | C1  | C3                      | C2                             |
| ## 4 | C4  | C7                      | C2                             |
| ## 5 | C2  | C3                      | C2                             |
| ## 6 | C1  | C3                      | C4                             |
| ##   | paper_Protein.Clusters                    | paper_PARADIGM.Clusters | paper_Pan.Gyn.Clusters         |
| ## 1 | <NA>                                      | C6                      | <NA>                           |
| ## 2 | C5  | C2                      | C5                             |
| ## 3 | C1  | C5                      | C5                             |
| ## 4 | C5  | C2                      | C5                             |
| ## 5 | C1  | C6                      | C1                             |
| ## 6 | C2  | C5                      | C1                             |
| ##   | patient_id                                |                         |                                |
| ## 1 | TCGA-5L-AAT0                              |                         |                                |
| ## 2 | TCGA-A2-A04U                              |                         |                                |

```
## 3 TCGA-AN-A04A
## 4 TCGA-A7-A13D
## 5 TCGA-BH-A201
## 6 TCGA-BH-A0H6
```

```
head(rna_genes)
```

```
##   X source type score phase      gene_id      gene_type gene_name level
## 1 1 HAVANA gene    NA     NA ENSG000000000003.15 protein_coding  TSPAN6     2
## 2 2 HAVANA gene    NA     NA ENSG000000000005.6 protein_coding   TNMD     2
## 3 3 HAVANA gene    NA     NA ENSG0000000000419.13 protein_coding   DPM1     2
## 4 4 HAVANA gene    NA     NA ENSG0000000000457.14 protein_coding   SCYL3     2
## 5 5 HAVANA gene    NA     NA ENSG0000000000460.17 protein_coding C1orf112   2
## 6 6 HAVANA gene    NA     NA ENSG0000000000938.13 protein_coding    FGR     2
##      hgnc_id      havana_gene
## 1 HGNC:11858 OTTHUMG00000022002.2
## 2 HGNC:17757 OTTHUMG00000022001.2
## 3 HGNC:3005  OTTHUMG00000032742.2
## 4 HGNC:19285 OTTHUMG00000035941.6
## 5 HGNC:25565 OTTHUMG00000035821.9
## 6 HGNC:3697  OTTHUMG0000003516.3
```

```
rna_counts[1:5, 1:5]
```

```
##           TCGA-5L-AATO TCGA-A2-A04U TCGA-AN-A04A TCGA-A7-A13D
## ENSG000000000003.15      2878      4743      1417      3018
## ENSG000000000005.6         5        20         9         0
## ENSG0000000000419.13       918      3667      1982      2817
## ENSG0000000000457.14       679       491      1227       591
## ENSG0000000000460.17       242       241       284      1083
##           TCGA-BH-A201
## ENSG000000000003.15      3555
## ENSG000000000005.6        30
## ENSG0000000000419.13     2537
## ENSG0000000000457.14     1865
## ENSG0000000000460.17      890
```

Use the `dim()` function to find the dimensions of the `colData`, `rowRanges@elementMetadata`, and `unstranded`

```
colData (rows, cols): 1231, 98
```

```
rowRanges@elementMetadata: 60660, 10
```

```
rna_se@assays@data$unstranded: 60660, 1231
```

```
dim(rna_clinical)
```

```
## [1] 1095   87
```

```
dim(rna_genes)
```

```
## [1] 60660   11
```

```
dim(rna_counts)
```

```
## [1] 60660 1095
```

Fill out a description of the rows/columns of our data frames. You can use this as a cheat sheet moving forward

`colData` - Rows: patients - Columns: clinical variables

`rowRanges@elementMetadata` - Rows: genes - Columns: gene info

`unstranded` (in assays) - Rows: genes - Columns: patients

```
# Clinical data
```

```
rownames(rna_clinical)[1:5]
```

```
## [1] "1" "2" "3" "4" "5"
```

```
colnames(rna_clinical)
```

```
## [1] "X"  
## [2] "barcode"  
## [3] "patient"  
## [4] "sample"  
## [5] "shortLetterCode"  
## [6] "definition"  
## [7] "sample_submitter_id"  
## [8] "sample_type_id"  
## [9] "tumor_descriptor"  
## [10] "sample_id"  
## [11] "submitter_id"  
## [12] "sample_type"  
## [13] "oct_embedded"  
## [14] "specimen_type"  
## [15] "state"  
## [16] "is_ffpe"  
## [17] "tissue_type"  
## [18] "preservation_method"  
## [19] "composition"  
## [20] "days_to_collection"  
## [21] "initial_weight"  
## [22] "pathology_report_uuid"  
## [23] "synchronous_malignancy"  
## [24] "ajcc_pathologic_stage"  
## [25] "days_to_diagnosis"  
## [26] "last_known_disease_status"  
## [27] "tissue_or_organ_of_origin"  
## [28] "days_to_last_follow_up"  
## [29] "age_at_diagnosis"  
## [30] "primary_diagnosis"  
## [31] "prior_malignancy"  
## [32] "year_of_diagnosis"  
## [33] "prior_treatment"  
## [34] "ajcc_pathologic_t"  
## [35] "morphology"  
## [36] "ajcc_pathologic_n"  
## [37] "ajcc_pathologic_m"  
## [38] "classification_of_tumor"  
## [39] "diagnosis_id"  
## [40] "icd_10_code"  
## [41] "site_of_resection_or_biopsy"  
## [42] "tumor_grade"  
## [43] "progression_or_recurrence"  
## [44] "ajcc_staging_system_edition"  
## [45] "alcohol_history"  
## [46] "exposure_id"  
## [47] "race"  
## [48] "gender"
```



```

## [49] "ethnicity"
## [50] "vital_status"
## [51] "age_at_index"
## [52] "days_to_birth"
## [53] "year_of_birth"
## [54] "demographic_id"
## [55] "days_to_death"
## [56] "bcr_patient_barcode"
## [57] "project_id"
## [58] "name"
## [59] "releasable"
## [60] "released"
## [61] "year_of_death"
## [62] "days_to_sample_procurement"
## [63] "paper_patient"
## [64] "paper_Tumor.Type"
## [65] "paper_Included_in_previous_marker_papers"
## [66] "paper_vital_status"
## [67] "paper_days_to_birth"
## [68] "paper_days_to_death"
## [69] "paper_days_to_last_followup"
## [70] "paper_age_at_initial_pathologic_diagnosis"
## [71] "paper_pathologic_stage"
## [72] "paper_Tumor_Grade"
## [73] "paper_BRCA_Pathology"
## [74] "paper_BRCA_Subtype_PAM50"
## [75] "paper_MSI_status"
## [76] "paper_HP_V_Status"
## [77] "paper_tobacco_smoking_history"
## [78] "paper_CNV.Clusters"
## [79] "paper_Mutation.Clusters"
## [80] "paper_DNA.Methylation.Clusters"
## [81] "paper_mRNA.Clusters"
## [82] "paper_miRNA.Clusters"
## [83] "paper_lncRNA.Clusters"
## [84] "paper_Protein.Clusters"
## [85] "paper_PARADIGM.Clusters"
## [86] "paper_Pan.Gyn.Clusters"
## [87] "patient_id"

# Gene data
rownames(rna_genes)[1:5]

## [1] "1" "2" "3" "4" "5"

colnames(rna_genes)

## [1] "X"          "source"      "type"        "score"       "phase"
## [6] "gene_id"    "gene_type"   "gene_name"   "level"      "hgnc_id"
## [11] "havana_gene"

# what are the rows...?
# Counts data
rownames(rna_counts)[1:5]

## [1] "ENSG00000000003.15" "ENSG00000000005.6" "ENSG000000000419.13"

```

```
## [4] "ENSG00000000457.14" "ENSG00000000460.17"
```

```
colnames(rna_counts)[1:5]
```

```
## [1] "TCGA-5L-AAT0" "TCGA-A2-A04U" "TCGA-AN-A04A" "TCGA-A7-A13D" "TCGA-BH-A201"
```

(2) ColData

Using the nested dataframe colData in rna\_se, view the first 15 values in the age\_at\_index column.

```
# write code here
```

```
rna_clinical$age_at_index[1:15]
```

```
## [1] 42 47 36 46 64 82 48 36 74 79 43 64 80 50 51
```

Call summary on the age\_at\_index column. Record the output below: Min.: 1st Qu.: Median: Mean: 3rd Qu.: Max.: NA's:

```
# write code here
```

```
summary(rna_clinical$age_at_index)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.     NA's
##    26.00   49.00   58.00   58.47   67.00   90.00         1
```

Create a data frame called rna\_clinical that contains data from colData.

```
colnames_mask <- !(colnames(rna_clinical) %in% c("treatments", "primary_site", "disease_type", "sites_of_involvement"))
rna_clinical <- rna_clinical[, colnames_mask]
```

Use the as.data.frame() function to change this from an S4 object to a data frame object.

```
rna_clinical <- as.data.frame(rna_clinical)
```

Four columns in rna\_clinical contain nested lists. To save the dataframe as a csv later, we need to first remove those columns. Using boolean masks, subset out treatments, primary\_site, disease\_type, and sites\_of\_involvement

```
colnames_mask <- !(colnames(rna_clinical) %in% c("treatments", "primary_site", "disease_type", "sites_of_involvement"))
```

```
#we are masking out COLUMNS here
```

```
rna_clinical <- rna_clinical[,colnames_mask]
```

Remember that patient with an N/A value in age\_at\_index? Let's subset them out.

```
age_NA_mask <- !is.na(rna_clinical$age_at_index)
```

```
rna_clinical <- rna_clinical[age_NA_mask,]
```

```
summary(rna_clinical$age_at_index)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    26.00   49.00   58.00   58.47   67.00   90.00
```

(3) RowRanges

Call head() on rowRanges@elementMetadata:

```
# write code here
```

```
head(rna_se@rowRanges@elementMetadata)
```

```
## DataFrame with 6 rows and 1 column
```

```
##           gene_id
##      <character>
## 1 ENSG00000000003.15
## 2 ENSG00000000005.6
## 3 ENSG00000000419.13
## 4 ENSG00000000457.14
## 5 ENSG00000000460.17
## 6 ENSG00000000938.13
```

Create a data frame called `rna_genes` that contains data from `elementMetadata`.

```
rna_genes <- rna_se@rowRanges@elementMetadata
```

Use the `as.data.frame()` function to change this from an S4 object to a data frame object

```
rna_genes <- as.data.frame(rna_genes)
```

(4) Assays

What are the names of the 6 assays?

```
# access the assays here
rna_se@assays@data
```

```
## List of length 1
## names(1): unstranded
```

Create a new data frame called “`rna_counts`” that contains the data from `unstranded`. Recall the patient with NA age data? We need to exclude that patient. We can use the same mask to do this.

```
rna_counts <- rna_se@assays@data$unstranded
rna_counts <- as.data.frame(rna_counts)

rna_counts <- rna_counts[,age_NA_mask]
```

Fetch the data for the first 5 patients and the first 15 rows.

```
rna_counts[1:15, 1:5]
```

```
##           TCGA-5L-AAT0 TCGA-A2-A04U TCGA-AN-A04A TCGA-A7-A13D
## ENSG00000000003.15      2878      4743      1417      3018
## ENSG00000000005.6         5        20         9         0
## ENSG00000000419.13       918      3667      1982      2817
## ENSG00000000457.14       679       491      1227       591
## ENSG00000000460.17       242       241       284      1083
## ENSG00000000938.13       366       139       215       231
## ENSG00000000971.16      1729       614      4016      1495
## ENSG00000001036.14      1100      1348      2753      2554
## ENSG00000001084.13       796       759       870       918
## ENSG00000001167.14      1451      2120      1557      2623
## ENSG00000001460.18       383       771       440       797
## ENSG00000001461.17      1591      2291      1991      3581
## ENSG00000001497.18      1791      2572      3144      5139
## ENSG00000001561.7        612       354       395       677
## ENSG00000001617.12      3959      1036      5996      2486
##           TCGA-BH-A201
## ENSG00000000003.15      3555
## ENSG00000000005.6         30
## ENSG00000000419.13      2537
```

```
## ENSG00000000457.14      1865
## ENSG00000000460.17      890
## ENSG00000000938.13      711
## ENSG00000000971.16     4352
## ENSG00000001036.14     2175
## ENSG00000001084.13     2472
## ENSG00000001167.14     3796
## ENSG00000001460.18      654
## ENSG00000001461.17     3035
## ENSG00000001497.18     3565
## ENSG00000001561.7       3388
## ENSG00000001617.12     5184
```

(5) Cleaning up your data frames

Call `rownames()` and `colnames()` on `rna_clinical`.

```
rownames(rna_clinical)[1:5]
```

```
## [1] "1" "2" "3" "4" "5"
```

```
colnames(rna_clinical)
```

```
## [1] "X"
## [2] "barcode"
## [3] "patient"
## [4] "sample"
## [5] "shortLetterCode"
## [6] "definition"
## [7] "sample_submitter_id"
## [8] "sample_type_id"
## [9] "tumor_descriptor"
## [10] "sample_id"
## [11] "submitter_id"
## [12] "sample_type"
## [13] "oct_embedded"
## [14] "specimen_type"
## [15] "state"
## [16] "is_ffpe"
## [17] "tissue_type"
## [18] "preservation_method"
## [19] "composition"
## [20] "days_to_collection"
## [21] "initial_weight"
## [22] "pathology_report_uuid"
## [23] "synchronous_malignancy"
## [24] "ajcc_pathologic_stage"
## [25] "days_to_diagnosis"
## [26] "last_known_disease_status"
## [27] "tissue_or_organ_of_origin"
## [28] "days_to_last_follow_up"
## [29] "age_at_diagnosis"
## [30] "primary_diagnosis"
## [31] "prior_malignancy"
## [32] "year_of_diagnosis"
## [33] "prior_treatment"
```

```

## [34] "ajcc_pathologic_t"
## [35] "morphology"
## [36] "ajcc_pathologic_n"
## [37] "ajcc_pathologic_m"
## [38] "classification_of_tumor"
## [39] "diagnosis_id"
## [40] "icd_10_code"
## [41] "site_of_resection_or_biopsy"
## [42] "tumor_grade"
## [43] "progression_or_recurrence"
## [44] "ajcc_staging_system_edition"
## [45] "alcohol_history"
## [46] "exposure_id"
## [47] "race"
## [48] "gender"
## [49] "ethnicity"
## [50] "vital_status"
## [51] "age_at_index"
## [52] "days_to_birth"
## [53] "year_of_birth"
## [54] "demographic_id"
## [55] "days_to_death"
## [56] "bcr_patient_barcode"
## [57] "project_id"
## [58] "name"
## [59] "releasable"
## [60] "released"
## [61] "year_of_death"
## [62] "days_to_sample_procurement"
## [63] "paper_patient"
## [64] "paper_Tumor.Type"
## [65] "paper_Included_in_previous_marker_papers"
## [66] "paper_vital_status"
## [67] "paper_days_to_birth"
## [68] "paper_days_to_death"
## [69] "paper_days_to_last_followup"
## [70] "paper_age_at_initial_pathologic_diagnosis"
## [71] "paper_pathologic_stage"
## [72] "paper_Tumor_Grade"
## [73] "paper_BRCA_Pathology"
## [74] "paper_BRCA_Subtype_PAM50"
## [75] "paper_MSI_status"
## [76] "paper_HP_V_Status"
## [77] "paper_tobacco_smoking_history"
## [78] "paper_CNV.Clusters"
## [79] "paper_Mutation.Clusters"
## [80] "paper_DNA.Methylation.Clusters"
## [81] "paper_mRNA.Clusters"
## [82] "paper_miRNA.Clusters"
## [83] "paper_lncRNA.Clusters"
## [84] "paper_Protein.Clusters"
## [85] "paper_PARADIGM.Clusters"
## [86] "paper_Pan.Gyn.Clusters"
## [87] "patient_id"

```

Just like we did to “clinical”, we are going to create a column in `rna_clinical` for `age_category`. Our cutoff will be “young” as  $\leq 58$  y/o, and “old” as  $> 58$  y/o.

There are three age columns in `rna_clinical`. We’ll use the column `age_at_index`, because it has the fewest number of NA values (only 1).

Age columns: `rna_clinical$age_at_index` (16 NAs) (*indays, not years*)  
`rna_clinical$paper_age_at_index` (19 NAs)

Use the information in `age_at_index` with an `ifelse()` statement to create a new column in `rna_clinical` called `age_category`. Remember `ifelse(expression, x, y)`, where `x` happens if the expression is true, and `y` happens if it is false.

Just like we did to “clinical”, we are going to create a column in `rna_clinical` for `age_category`. Our cutoff will be “young” as  $\leq 58$  y/o, and “old” as  $> 58$  y/o.

```
rna_clinical$age_category <- ifelse(rna_clinical$age_at_index <= 58, "young", "old")
table(rna_clinical$age_category)
```

```
##
##   old young
##   545   549
```

---

Let’s move on to `rna_genes`. Call `rownames()` and `colnames()` on `rna_genes`.

```
rownames(rna_genes)
```

```
##      [1] "1"      "2"      "3"      "4"      "5"      "6"      "7"      "8"      "9"
##     [10] "10"     "11"     "12"     "13"     "14"     "15"     "16"     "17"     "18"
##     [19] "19"     "20"     "21"     "22"     "23"     "24"     "25"     "26"     "27"
##     [28] "28"     "29"     "30"     "31"     "32"     "33"     "34"     "35"     "36"
##     [37] "37"     "38"     "39"     "40"     "41"     "42"     "43"     "44"     "45"
##     [46] "46"     "47"     "48"     "49"     "50"     "51"     "52"     "53"     "54"
##     [55] "55"     "56"     "57"     "58"     "59"     "60"     "61"     "62"     "63"
##     [64] "64"     "65"     "66"     "67"     "68"     "69"     "70"     "71"     "72"
##     [73] "73"     "74"     "75"     "76"     "77"     "78"     "79"     "80"     "81"
##     [82] "82"     "83"     "84"     "85"     "86"     "87"     "88"     "89"     "90"
##     [91] "91"     "92"     "93"     "94"     "95"     "96"     "97"     "98"     "99"
##    [100] "100"    "101"    "102"    "103"    "104"    "105"    "106"    "107"    "108"
##    [109] "109"    "110"    "111"    "112"    "113"    "114"    "115"    "116"    "117"
##    [118] "118"    "119"    "120"    "121"    "122"    "123"    "124"    "125"    "126"
##    [127] "127"    "128"    "129"    "130"    "131"    "132"    "133"    "134"    "135"
##    [136] "136"    "137"    "138"    "139"    "140"    "141"    "142"    "143"    "144"
##    [145] "145"    "146"    "147"    "148"    "149"    "150"    "151"    "152"    "153"
##    [154] "154"    "155"    "156"    "157"    "158"    "159"    "160"    "161"    "162"
##    [163] "163"    "164"    "165"    "166"    "167"    "168"    "169"    "170"    "171"
##    [172] "172"    "173"    "174"    "175"    "176"    "177"    "178"    "179"    "180"
##    [181] "181"    "182"    "183"    "184"    "185"    "186"    "187"    "188"    "189"
##    [190] "190"    "191"    "192"    "193"    "194"    "195"    "196"    "197"    "198"
##    [199] "199"    "200"    "201"    "202"    "203"    "204"    "205"    "206"    "207"
##    [208] "208"    "209"    "210"    "211"    "212"    "213"    "214"    "215"    "216"
##    [217] "217"    "218"    "219"    "220"    "221"    "222"    "223"    "224"    "225"
##    [226] "226"    "227"    "228"    "229"    "230"    "231"    "232"    "233"    "234"
##    [235] "235"    "236"    "237"    "238"    "239"    "240"    "241"    "242"    "243"
##    [244] "244"    "245"    "246"    "247"    "248"    "249"    "250"    "251"    "252"
##    [253] "253"    "254"    "255"    "256"    "257"    "258"    "259"    "260"    "261"
```

|    |       |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ## | [262] | "262" | "263" | "264" | "265" | "266" | "267" | "268" | "269" | "270" |
| ## | [271] | "271" | "272" | "273" | "274" | "275" | "276" | "277" | "278" | "279" |
| ## | [280] | "280" | "281" | "282" | "283" | "284" | "285" | "286" | "287" | "288" |
| ## | [289] | "289" | "290" | "291" | "292" | "293" | "294" | "295" | "296" | "297" |
| ## | [298] | "298" | "299" | "300" | "301" | "302" | "303" | "304" | "305" | "306" |
| ## | [307] | "307" | "308" | "309" | "310" | "311" | "312" | "313" | "314" | "315" |
| ## | [316] | "316" | "317" | "318" | "319" | "320" | "321" | "322" | "323" | "324" |
| ## | [325] | "325" | "326" | "327" | "328" | "329" | "330" | "331" | "332" | "333" |
| ## | [334] | "334" | "335" | "336" | "337" | "338" | "339" | "340" | "341" | "342" |
| ## | [343] | "343" | "344" | "345" | "346" | "347" | "348" | "349" | "350" | "351" |
| ## | [352] | "352" | "353" | "354" | "355" | "356" | "357" | "358" | "359" | "360" |
| ## | [361] | "361" | "362" | "363" | "364" | "365" | "366" | "367" | "368" | "369" |
| ## | [370] | "370" | "371" | "372" | "373" | "374" | "375" | "376" | "377" | "378" |
| ## | [379] | "379" | "380" | "381" | "382" | "383" | "384" | "385" | "386" | "387" |
| ## | [388] | "388" | "389" | "390" | "391" | "392" | "393" | "394" | "395" | "396" |
| ## | [397] | "397" | "398" | "399" | "400" | "401" | "402" | "403" | "404" | "405" |
| ## | [406] | "406" | "407" | "408" | "409" | "410" | "411" | "412" | "413" | "414" |
| ## | [415] | "415" | "416" | "417" | "418" | "419" | "420" | "421" | "422" | "423" |
| ## | [424] | "424" | "425" | "426" | "427" | "428" | "429" | "430" | "431" | "432" |
| ## | [433] | "433" | "434" | "435" | "436" | "437" | "438" | "439" | "440" | "441" |
| ## | [442] | "442" | "443" | "444" | "445" | "446" | "447" | "448" | "449" | "450" |
| ## | [451] | "451" | "452" | "453" | "454" | "455" | "456" | "457" | "458" | "459" |
| ## | [460] | "460" | "461" | "462" | "463" | "464" | "465" | "466" | "467" | "468" |
| ## | [469] | "469" | "470" | "471" | "472" | "473" | "474" | "475" | "476" | "477" |
| ## | [478] | "478" | "479" | "480" | "481" | "482" | "483" | "484" | "485" | "486" |
| ## | [487] | "487" | "488" | "489" | "490" | "491" | "492" | "493" | "494" | "495" |
| ## | [496] | "496" | "497" | "498" | "499" | "500" | "501" | "502" | "503" | "504" |
| ## | [505] | "505" | "506" | "507" | "508" | "509" | "510" | "511" | "512" | "513" |
| ## | [514] | "514" | "515" | "516" | "517" | "518" | "519" | "520" | "521" | "522" |
| ## | [523] | "523" | "524" | "525" | "526" | "527" | "528" | "529" | "530" | "531" |
| ## | [532] | "532" | "533" | "534" | "535" | "536" | "537" | "538" | "539" | "540" |
| ## | [541] | "541" | "542" | "543" | "544" | "545" | "546" | "547" | "548" | "549" |
| ## | [550] | "550" | "551" | "552" | "553" | "554" | "555" | "556" | "557" | "558" |
| ## | [559] | "559" | "560" | "561" | "562" | "563" | "564" | "565" | "566" | "567" |
| ## | [568] | "568" | "569" | "570" | "571" | "572" | "573" | "574" | "575" | "576" |
| ## | [577] | "577" | "578" | "579" | "580" | "581" | "582" | "583" | "584" | "585" |
| ## | [586] | "586" | "587" | "588" | "589" | "590" | "591" | "592" | "593" | "594" |
| ## | [595] | "595" | "596" | "597" | "598" | "599" | "600" | "601" | "602" | "603" |
| ## | [604] | "604" | "605" | "606" | "607" | "608" | "609" | "610" | "611" | "612" |
| ## | [613] | "613" | "614" | "615" | "616" | "617" | "618" | "619" | "620" | "621" |
| ## | [622] | "622" | "623" | "624" | "625" | "626" | "627" | "628" | "629" | "630" |
| ## | [631] | "631" | "632" | "633" | "634" | "635" | "636" | "637" | "638" | "639" |
| ## | [640] | "640" | "641" | "642" | "643" | "644" | "645" | "646" | "647" | "648" |
| ## | [649] | "649" | "650" | "651" | "652" | "653" | "654" | "655" | "656" | "657" |
| ## | [658] | "658" | "659" | "660" | "661" | "662" | "663" | "664" | "665" | "666" |
| ## | [667] | "667" | "668" | "669" | "670" | "671" | "672" | "673" | "674" | "675" |
| ## | [676] | "676" | "677" | "678" | "679" | "680" | "681" | "682" | "683" | "684" |
| ## | [685] | "685" | "686" | "687" | "688" | "689" | "690" | "691" | "692" | "693" |
| ## | [694] | "694" | "695" | "696" | "697" | "698" | "699" | "700" | "701" | "702" |
| ## | [703] | "703" | "704" | "705" | "706" | "707" | "708" | "709" | "710" | "711" |
| ## | [712] | "712" | "713" | "714" | "715" | "716" | "717" | "718" | "719" | "720" |
| ## | [721] | "721" | "722" | "723" | "724" | "725" | "726" | "727" | "728" | "729" |
| ## | [730] | "730" | "731" | "732" | "733" | "734" | "735" | "736" | "737" | "738" |
| ## | [739] | "739" | "740" | "741" | "742" | "743" | "744" | "745" | "746" | "747" |

|    |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [748]  | "748"  | "749"  | "750"  | "751"  | "752"  | "753"  | "754"  | "755"  | "756"  |
| ## | [757]  | "757"  | "758"  | "759"  | "760"  | "761"  | "762"  | "763"  | "764"  | "765"  |
| ## | [766]  | "766"  | "767"  | "768"  | "769"  | "770"  | "771"  | "772"  | "773"  | "774"  |
| ## | [775]  | "775"  | "776"  | "777"  | "778"  | "779"  | "780"  | "781"  | "782"  | "783"  |
| ## | [784]  | "784"  | "785"  | "786"  | "787"  | "788"  | "789"  | "790"  | "791"  | "792"  |
| ## | [793]  | "793"  | "794"  | "795"  | "796"  | "797"  | "798"  | "799"  | "800"  | "801"  |
| ## | [802]  | "802"  | "803"  | "804"  | "805"  | "806"  | "807"  | "808"  | "809"  | "810"  |
| ## | [811]  | "811"  | "812"  | "813"  | "814"  | "815"  | "816"  | "817"  | "818"  | "819"  |
| ## | [820]  | "820"  | "821"  | "822"  | "823"  | "824"  | "825"  | "826"  | "827"  | "828"  |
| ## | [829]  | "829"  | "830"  | "831"  | "832"  | "833"  | "834"  | "835"  | "836"  | "837"  |
| ## | [838]  | "838"  | "839"  | "840"  | "841"  | "842"  | "843"  | "844"  | "845"  | "846"  |
| ## | [847]  | "847"  | "848"  | "849"  | "850"  | "851"  | "852"  | "853"  | "854"  | "855"  |
| ## | [856]  | "856"  | "857"  | "858"  | "859"  | "860"  | "861"  | "862"  | "863"  | "864"  |
| ## | [865]  | "865"  | "866"  | "867"  | "868"  | "869"  | "870"  | "871"  | "872"  | "873"  |
| ## | [874]  | "874"  | "875"  | "876"  | "877"  | "878"  | "879"  | "880"  | "881"  | "882"  |
| ## | [883]  | "883"  | "884"  | "885"  | "886"  | "887"  | "888"  | "889"  | "890"  | "891"  |
| ## | [892]  | "892"  | "893"  | "894"  | "895"  | "896"  | "897"  | "898"  | "899"  | "900"  |
| ## | [901]  | "901"  | "902"  | "903"  | "904"  | "905"  | "906"  | "907"  | "908"  | "909"  |
| ## | [910]  | "910"  | "911"  | "912"  | "913"  | "914"  | "915"  | "916"  | "917"  | "918"  |
| ## | [919]  | "919"  | "920"  | "921"  | "922"  | "923"  | "924"  | "925"  | "926"  | "927"  |
| ## | [928]  | "928"  | "929"  | "930"  | "931"  | "932"  | "933"  | "934"  | "935"  | "936"  |
| ## | [937]  | "937"  | "938"  | "939"  | "940"  | "941"  | "942"  | "943"  | "944"  | "945"  |
| ## | [946]  | "946"  | "947"  | "948"  | "949"  | "950"  | "951"  | "952"  | "953"  | "954"  |
| ## | [955]  | "955"  | "956"  | "957"  | "958"  | "959"  | "960"  | "961"  | "962"  | "963"  |
| ## | [964]  | "964"  | "965"  | "966"  | "967"  | "968"  | "969"  | "970"  | "971"  | "972"  |
| ## | [973]  | "973"  | "974"  | "975"  | "976"  | "977"  | "978"  | "979"  | "980"  | "981"  |
| ## | [982]  | "982"  | "983"  | "984"  | "985"  | "986"  | "987"  | "988"  | "989"  | "990"  |
| ## | [991]  | "991"  | "992"  | "993"  | "994"  | "995"  | "996"  | "997"  | "998"  | "999"  |
| ## | [1000] | "1000" | "1001" | "1002" | "1003" | "1004" | "1005" | "1006" | "1007" | "1008" |
| ## | [1009] | "1009" | "1010" | "1011" | "1012" | "1013" | "1014" | "1015" | "1016" | "1017" |
| ## | [1018] | "1018" | "1019" | "1020" | "1021" | "1022" | "1023" | "1024" | "1025" | "1026" |
| ## | [1027] | "1027" | "1028" | "1029" | "1030" | "1031" | "1032" | "1033" | "1034" | "1035" |
| ## | [1036] | "1036" | "1037" | "1038" | "1039" | "1040" | "1041" | "1042" | "1043" | "1044" |
| ## | [1045] | "1045" | "1046" | "1047" | "1048" | "1049" | "1050" | "1051" | "1052" | "1053" |
| ## | [1054] | "1054" | "1055" | "1056" | "1057" | "1058" | "1059" | "1060" | "1061" | "1062" |
| ## | [1063] | "1063" | "1064" | "1065" | "1066" | "1067" | "1068" | "1069" | "1070" | "1071" |
| ## | [1072] | "1072" | "1073" | "1074" | "1075" | "1076" | "1077" | "1078" | "1079" | "1080" |
| ## | [1081] | "1081" | "1082" | "1083" | "1084" | "1085" | "1086" | "1087" | "1088" | "1089" |
| ## | [1090] | "1090" | "1091" | "1092" | "1093" | "1094" | "1095" | "1096" | "1097" | "1098" |
| ## | [1099] | "1099" | "1100" | "1101" | "1102" | "1103" | "1104" | "1105" | "1106" | "1107" |
| ## | [1108] | "1108" | "1109" | "1110" | "1111" | "1112" | "1113" | "1114" | "1115" | "1116" |
| ## | [1117] | "1117" | "1118" | "1119" | "1120" | "1121" | "1122" | "1123" | "1124" | "1125" |
| ## | [1126] | "1126" | "1127" | "1128" | "1129" | "1130" | "1131" | "1132" | "1133" | "1134" |
| ## | [1135] | "1135" | "1136" | "1137" | "1138" | "1139" | "1140" | "1141" | "1142" | "1143" |
| ## | [1144] | "1144" | "1145" | "1146" | "1147" | "1148" | "1149" | "1150" | "1151" | "1152" |
| ## | [1153] | "1153" | "1154" | "1155" | "1156" | "1157" | "1158" | "1159" | "1160" | "1161" |
| ## | [1162] | "1162" | "1163" | "1164" | "1165" | "1166" | "1167" | "1168" | "1169" | "1170" |
| ## | [1171] | "1171" | "1172" | "1173" | "1174" | "1175" | "1176" | "1177" | "1178" | "1179" |
| ## | [1180] | "1180" | "1181" | "1182" | "1183" | "1184" | "1185" | "1186" | "1187" | "1188" |
| ## | [1189] | "1189" | "1190" | "1191" | "1192" | "1193" | "1194" | "1195" | "1196" | "1197" |
| ## | [1198] | "1198" | "1199" | "1200" | "1201" | "1202" | "1203" | "1204" | "1205" | "1206" |
| ## | [1207] | "1207" | "1208" | "1209" | "1210" | "1211" | "1212" | "1213" | "1214" | "1215" |
| ## | [1216] | "1216" | "1217" | "1218" | "1219" | "1220" | "1221" | "1222" | "1223" | "1224" |
| ## | [1225] | "1225" | "1226" | "1227" | "1228" | "1229" | "1230" | "1231" | "1232" | "1233" |



|    |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [1234] | "1234" | "1235" | "1236" | "1237" | "1238" | "1239" | "1240" | "1241" | "1242" |
| ## | [1243] | "1243" | "1244" | "1245" | "1246" | "1247" | "1248" | "1249" | "1250" | "1251" |
| ## | [1252] | "1252" | "1253" | "1254" | "1255" | "1256" | "1257" | "1258" | "1259" | "1260" |
| ## | [1261] | "1261" | "1262" | "1263" | "1264" | "1265" | "1266" | "1267" | "1268" | "1269" |
| ## | [1270] | "1270" | "1271" | "1272" | "1273" | "1274" | "1275" | "1276" | "1277" | "1278" |
| ## | [1279] | "1279" | "1280" | "1281" | "1282" | "1283" | "1284" | "1285" | "1286" | "1287" |
| ## | [1288] | "1288" | "1289" | "1290" | "1291" | "1292" | "1293" | "1294" | "1295" | "1296" |
| ## | [1297] | "1297" | "1298" | "1299" | "1300" | "1301" | "1302" | "1303" | "1304" | "1305" |
| ## | [1306] | "1306" | "1307" | "1308" | "1309" | "1310" | "1311" | "1312" | "1313" | "1314" |
| ## | [1315] | "1315" | "1316" | "1317" | "1318" | "1319" | "1320" | "1321" | "1322" | "1323" |
| ## | [1324] | "1324" | "1325" | "1326" | "1327" | "1328" | "1329" | "1330" | "1331" | "1332" |
| ## | [1333] | "1333" | "1334" | "1335" | "1336" | "1337" | "1338" | "1339" | "1340" | "1341" |
| ## | [1342] | "1342" | "1343" | "1344" | "1345" | "1346" | "1347" | "1348" | "1349" | "1350" |
| ## | [1351] | "1351" | "1352" | "1353" | "1354" | "1355" | "1356" | "1357" | "1358" | "1359" |
| ## | [1360] | "1360" | "1361" | "1362" | "1363" | "1364" | "1365" | "1366" | "1367" | "1368" |
| ## | [1369] | "1369" | "1370" | "1371" | "1372" | "1373" | "1374" | "1375" | "1376" | "1377" |
| ## | [1378] | "1378" | "1379" | "1380" | "1381" | "1382" | "1383" | "1384" | "1385" | "1386" |
| ## | [1387] | "1387" | "1388" | "1389" | "1390" | "1391" | "1392" | "1393" | "1394" | "1395" |
| ## | [1396] | "1396" | "1397" | "1398" | "1399" | "1400" | "1401" | "1402" | "1403" | "1404" |
| ## | [1405] | "1405" | "1406" | "1407" | "1408" | "1409" | "1410" | "1411" | "1412" | "1413" |
| ## | [1414] | "1414" | "1415" | "1416" | "1417" | "1418" | "1419" | "1420" | "1421" | "1422" |
| ## | [1423] | "1423" | "1424" | "1425" | "1426" | "1427" | "1428" | "1429" | "1430" | "1431" |
| ## | [1432] | "1432" | "1433" | "1434" | "1435" | "1436" | "1437" | "1438" | "1439" | "1440" |
| ## | [1441] | "1441" | "1442" | "1443" | "1444" | "1445" | "1446" | "1447" | "1448" | "1449" |
| ## | [1450] | "1450" | "1451" | "1452" | "1453" | "1454" | "1455" | "1456" | "1457" | "1458" |
| ## | [1459] | "1459" | "1460" | "1461" | "1462" | "1463" | "1464" | "1465" | "1466" | "1467" |
| ## | [1468] | "1468" | "1469" | "1470" | "1471" | "1472" | "1473" | "1474" | "1475" | "1476" |
| ## | [1477] | "1477" | "1478" | "1479" | "1480" | "1481" | "1482" | "1483" | "1484" | "1485" |
| ## | [1486] | "1486" | "1487" | "1488" | "1489" | "1490" | "1491" | "1492" | "1493" | "1494" |
| ## | [1495] | "1495" | "1496" | "1497" | "1498" | "1499" | "1500" | "1501" | "1502" | "1503" |
| ## | [1504] | "1504" | "1505" | "1506" | "1507" | "1508" | "1509" | "1510" | "1511" | "1512" |
| ## | [1513] | "1513" | "1514" | "1515" | "1516" | "1517" | "1518" | "1519" | "1520" | "1521" |
| ## | [1522] | "1522" | "1523" | "1524" | "1525" | "1526" | "1527" | "1528" | "1529" | "1530" |
| ## | [1531] | "1531" | "1532" | "1533" | "1534" | "1535" | "1536" | "1537" | "1538" | "1539" |
| ## | [1540] | "1540" | "1541" | "1542" | "1543" | "1544" | "1545" | "1546" | "1547" | "1548" |
| ## | [1549] | "1549" | "1550" | "1551" | "1552" | "1553" | "1554" | "1555" | "1556" | "1557" |
| ## | [1558] | "1558" | "1559" | "1560" | "1561" | "1562" | "1563" | "1564" | "1565" | "1566" |
| ## | [1567] | "1567" | "1568" | "1569" | "1570" | "1571" | "1572" | "1573" | "1574" | "1575" |
| ## | [1576] | "1576" | "1577" | "1578" | "1579" | "1580" | "1581" | "1582" | "1583" | "1584" |
| ## | [1585] | "1585" | "1586" | "1587" | "1588" | "1589" | "1590" | "1591" | "1592" | "1593" |
| ## | [1594] | "1594" | "1595" | "1596" | "1597" | "1598" | "1599" | "1600" | "1601" | "1602" |
| ## | [1603] | "1603" | "1604" | "1605" | "1606" | "1607" | "1608" | "1609" | "1610" | "1611" |
| ## | [1612] | "1612" | "1613" | "1614" | "1615" | "1616" | "1617" | "1618" | "1619" | "1620" |
| ## | [1621] | "1621" | "1622" | "1623" | "1624" | "1625" | "1626" | "1627" | "1628" | "1629" |
| ## | [1630] | "1630" | "1631" | "1632" | "1633" | "1634" | "1635" | "1636" | "1637" | "1638" |
| ## | [1639] | "1639" | "1640" | "1641" | "1642" | "1643" | "1644" | "1645" | "1646" | "1647" |
| ## | [1648] | "1648" | "1649" | "1650" | "1651" | "1652" | "1653" | "1654" | "1655" | "1656" |
| ## | [1657] | "1657" | "1658" | "1659" | "1660" | "1661" | "1662" | "1663" | "1664" | "1665" |
| ## | [1666] | "1666" | "1667" | "1668" | "1669" | "1670" | "1671" | "1672" | "1673" | "1674" |
| ## | [1675] | "1675" | "1676" | "1677" | "1678" | "1679" | "1680" | "1681" | "1682" | "1683" |
| ## | [1684] | "1684" | "1685" | "1686" | "1687" | "1688" | "1689" | "1690" | "1691" | "1692" |
| ## | [1693] | "1693" | "1694" | "1695" | "1696" | "1697" | "1698" | "1699" | "1700" | "1701" |
| ## | [1702] | "1702" | "1703" | "1704" | "1705" | "1706" | "1707" | "1708" | "1709" | "1710" |
| ## | [1711] | "1711" | "1712" | "1713" | "1714" | "1715" | "1716" | "1717" | "1718" | "1719" |

|    |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [1720] | "1720" | "1721" | "1722" | "1723" | "1724" | "1725" | "1726" | "1727" | "1728" |
| ## | [1729] | "1729" | "1730" | "1731" | "1732" | "1733" | "1734" | "1735" | "1736" | "1737" |
| ## | [1738] | "1738" | "1739" | "1740" | "1741" | "1742" | "1743" | "1744" | "1745" | "1746" |
| ## | [1747] | "1747" | "1748" | "1749" | "1750" | "1751" | "1752" | "1753" | "1754" | "1755" |
| ## | [1756] | "1756" | "1757" | "1758" | "1759" | "1760" | "1761" | "1762" | "1763" | "1764" |
| ## | [1765] | "1765" | "1766" | "1767" | "1768" | "1769" | "1770" | "1771" | "1772" | "1773" |
| ## | [1774] | "1774" | "1775" | "1776" | "1777" | "1778" | "1779" | "1780" | "1781" | "1782" |
| ## | [1783] | "1783" | "1784" | "1785" | "1786" | "1787" | "1788" | "1789" | "1790" | "1791" |
| ## | [1792] | "1792" | "1793" | "1794" | "1795" | "1796" | "1797" | "1798" | "1799" | "1800" |
| ## | [1801] | "1801" | "1802" | "1803" | "1804" | "1805" | "1806" | "1807" | "1808" | "1809" |
| ## | [1810] | "1810" | "1811" | "1812" | "1813" | "1814" | "1815" | "1816" | "1817" | "1818" |
| ## | [1819] | "1819" | "1820" | "1821" | "1822" | "1823" | "1824" | "1825" | "1826" | "1827" |
| ## | [1828] | "1828" | "1829" | "1830" | "1831" | "1832" | "1833" | "1834" | "1835" | "1836" |
| ## | [1837] | "1837" | "1838" | "1839" | "1840" | "1841" | "1842" | "1843" | "1844" | "1845" |
| ## | [1846] | "1846" | "1847" | "1848" | "1849" | "1850" | "1851" | "1852" | "1853" | "1854" |
| ## | [1855] | "1855" | "1856" | "1857" | "1858" | "1859" | "1860" | "1861" | "1862" | "1863" |
| ## | [1864] | "1864" | "1865" | "1866" | "1867" | "1868" | "1869" | "1870" | "1871" | "1872" |
| ## | [1873] | "1873" | "1874" | "1875" | "1876" | "1877" | "1878" | "1879" | "1880" | "1881" |
| ## | [1882] | "1882" | "1883" | "1884" | "1885" | "1886" | "1887" | "1888" | "1889" | "1890" |
| ## | [1891] | "1891" | "1892" | "1893" | "1894" | "1895" | "1896" | "1897" | "1898" | "1899" |
| ## | [1900] | "1900" | "1901" | "1902" | "1903" | "1904" | "1905" | "1906" | "1907" | "1908" |
| ## | [1909] | "1909" | "1910" | "1911" | "1912" | "1913" | "1914" | "1915" | "1916" | "1917" |
| ## | [1918] | "1918" | "1919" | "1920" | "1921" | "1922" | "1923" | "1924" | "1925" | "1926" |
| ## | [1927] | "1927" | "1928" | "1929" | "1930" | "1931" | "1932" | "1933" | "1934" | "1935" |
| ## | [1936] | "1936" | "1937" | "1938" | "1939" | "1940" | "1941" | "1942" | "1943" | "1944" |
| ## | [1945] | "1945" | "1946" | "1947" | "1948" | "1949" | "1950" | "1951" | "1952" | "1953" |
| ## | [1954] | "1954" | "1955" | "1956" | "1957" | "1958" | "1959" | "1960" | "1961" | "1962" |
| ## | [1963] | "1963" | "1964" | "1965" | "1966" | "1967" | "1968" | "1969" | "1970" | "1971" |
| ## | [1972] | "1972" | "1973" | "1974" | "1975" | "1976" | "1977" | "1978" | "1979" | "1980" |
| ## | [1981] | "1981" | "1982" | "1983" | "1984" | "1985" | "1986" | "1987" | "1988" | "1989" |
| ## | [1990] | "1990" | "1991" | "1992" | "1993" | "1994" | "1995" | "1996" | "1997" | "1998" |
| ## | [1999] | "1999" | "2000" | "2001" | "2002" | "2003" | "2004" | "2005" | "2006" | "2007" |
| ## | [2008] | "2008" | "2009" | "2010" | "2011" | "2012" | "2013" | "2014" | "2015" | "2016" |
| ## | [2017] | "2017" | "2018" | "2019" | "2020" | "2021" | "2022" | "2023" | "2024" | "2025" |
| ## | [2026] | "2026" | "2027" | "2028" | "2029" | "2030" | "2031" | "2032" | "2033" | "2034" |
| ## | [2035] | "2035" | "2036" | "2037" | "2038" | "2039" | "2040" | "2041" | "2042" | "2043" |
| ## | [2044] | "2044" | "2045" | "2046" | "2047" | "2048" | "2049" | "2050" | "2051" | "2052" |
| ## | [2053] | "2053" | "2054" | "2055" | "2056" | "2057" | "2058" | "2059" | "2060" | "2061" |
| ## | [2062] | "2062" | "2063" | "2064" | "2065" | "2066" | "2067" | "2068" | "2069" | "2070" |
| ## | [2071] | "2071" | "2072" | "2073" | "2074" | "2075" | "2076" | "2077" | "2078" | "2079" |
| ## | [2080] | "2080" | "2081" | "2082" | "2083" | "2084" | "2085" | "2086" | "2087" | "2088" |
| ## | [2089] | "2089" | "2090" | "2091" | "2092" | "2093" | "2094" | "2095" | "2096" | "2097" |
| ## | [2098] | "2098" | "2099" | "2100" | "2101" | "2102" | "2103" | "2104" | "2105" | "2106" |
| ## | [2107] | "2107" | "2108" | "2109" | "2110" | "2111" | "2112" | "2113" | "2114" | "2115" |
| ## | [2116] | "2116" | "2117" | "2118" | "2119" | "2120" | "2121" | "2122" | "2123" | "2124" |
| ## | [2125] | "2125" | "2126" | "2127" | "2128" | "2129" | "2130" | "2131" | "2132" | "2133" |
| ## | [2134] | "2134" | "2135" | "2136" | "2137" | "2138" | "2139" | "2140" | "2141" | "2142" |
| ## | [2143] | "2143" | "2144" | "2145" | "2146" | "2147" | "2148" | "2149" | "2150" | "2151" |
| ## | [2152] | "2152" | "2153" | "2154" | "2155" | "2156" | "2157" | "2158" | "2159" | "2160" |
| ## | [2161] | "2161" | "2162" | "2163" | "2164" | "2165" | "2166" | "2167" | "2168" | "2169" |
| ## | [2170] | "2170" | "2171" | "2172" | "2173" | "2174" | "2175" | "2176" | "2177" | "2178" |
| ## | [2179] | "2179" | "2180" | "2181" | "2182" | "2183" | "2184" | "2185" | "2186" | "2187" |
| ## | [2188] | "2188" | "2189" | "2190" | "2191" | "2192" | "2193" | "2194" | "2195" | "2196" |
| ## | [2197] | "2197" | "2198" | "2199" | "2200" | "2201" | "2202" | "2203" | "2204" | "2205" |

|    |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [2206] | "2206" | "2207" | "2208" | "2209" | "2210" | "2211" | "2212" | "2213" | "2214" |
| ## | [2215] | "2215" | "2216" | "2217" | "2218" | "2219" | "2220" | "2221" | "2222" | "2223" |
| ## | [2224] | "2224" | "2225" | "2226" | "2227" | "2228" | "2229" | "2230" | "2231" | "2232" |
| ## | [2233] | "2233" | "2234" | "2235" | "2236" | "2237" | "2238" | "2239" | "2240" | "2241" |
| ## | [2242] | "2242" | "2243" | "2244" | "2245" | "2246" | "2247" | "2248" | "2249" | "2250" |
| ## | [2251] | "2251" | "2252" | "2253" | "2254" | "2255" | "2256" | "2257" | "2258" | "2259" |
| ## | [2260] | "2260" | "2261" | "2262" | "2263" | "2264" | "2265" | "2266" | "2267" | "2268" |
| ## | [2269] | "2269" | "2270" | "2271" | "2272" | "2273" | "2274" | "2275" | "2276" | "2277" |
| ## | [2278] | "2278" | "2279" | "2280" | "2281" | "2282" | "2283" | "2284" | "2285" | "2286" |
| ## | [2287] | "2287" | "2288" | "2289" | "2290" | "2291" | "2292" | "2293" | "2294" | "2295" |
| ## | [2296] | "2296" | "2297" | "2298" | "2299" | "2300" | "2301" | "2302" | "2303" | "2304" |
| ## | [2305] | "2305" | "2306" | "2307" | "2308" | "2309" | "2310" | "2311" | "2312" | "2313" |
| ## | [2314] | "2314" | "2315" | "2316" | "2317" | "2318" | "2319" | "2320" | "2321" | "2322" |
| ## | [2323] | "2323" | "2324" | "2325" | "2326" | "2327" | "2328" | "2329" | "2330" | "2331" |
| ## | [2332] | "2332" | "2333" | "2334" | "2335" | "2336" | "2337" | "2338" | "2339" | "2340" |
| ## | [2341] | "2341" | "2342" | "2343" | "2344" | "2345" | "2346" | "2347" | "2348" | "2349" |
| ## | [2350] | "2350" | "2351" | "2352" | "2353" | "2354" | "2355" | "2356" | "2357" | "2358" |
| ## | [2359] | "2359" | "2360" | "2361" | "2362" | "2363" | "2364" | "2365" | "2366" | "2367" |
| ## | [2368] | "2368" | "2369" | "2370" | "2371" | "2372" | "2373" | "2374" | "2375" | "2376" |
| ## | [2377] | "2377" | "2378" | "2379" | "2380" | "2381" | "2382" | "2383" | "2384" | "2385" |
| ## | [2386] | "2386" | "2387" | "2388" | "2389" | "2390" | "2391" | "2392" | "2393" | "2394" |
| ## | [2395] | "2395" | "2396" | "2397" | "2398" | "2399" | "2400" | "2401" | "2402" | "2403" |
| ## | [2404] | "2404" | "2405" | "2406" | "2407" | "2408" | "2409" | "2410" | "2411" | "2412" |
| ## | [2413] | "2413" | "2414" | "2415" | "2416" | "2417" | "2418" | "2419" | "2420" | "2421" |
| ## | [2422] | "2422" | "2423" | "2424" | "2425" | "2426" | "2427" | "2428" | "2429" | "2430" |
| ## | [2431] | "2431" | "2432" | "2433" | "2434" | "2435" | "2436" | "2437" | "2438" | "2439" |
| ## | [2440] | "2440" | "2441" | "2442" | "2443" | "2444" | "2445" | "2446" | "2447" | "2448" |
| ## | [2449] | "2449" | "2450" | "2451" | "2452" | "2453" | "2454" | "2455" | "2456" | "2457" |
| ## | [2458] | "2458" | "2459" | "2460" | "2461" | "2462" | "2463" | "2464" | "2465" | "2466" |
| ## | [2467] | "2467" | "2468" | "2469" | "2470" | "2471" | "2472" | "2473" | "2474" | "2475" |
| ## | [2476] | "2476" | "2477" | "2478" | "2479" | "2480" | "2481" | "2482" | "2483" | "2484" |
| ## | [2485] | "2485" | "2486" | "2487" | "2488" | "2489" | "2490" | "2491" | "2492" | "2493" |
| ## | [2494] | "2494" | "2495" | "2496" | "2497" | "2498" | "2499" | "2500" | "2501" | "2502" |
| ## | [2503] | "2503" | "2504" | "2505" | "2506" | "2507" | "2508" | "2509" | "2510" | "2511" |
| ## | [2512] | "2512" | "2513" | "2514" | "2515" | "2516" | "2517" | "2518" | "2519" | "2520" |
| ## | [2521] | "2521" | "2522" | "2523" | "2524" | "2525" | "2526" | "2527" | "2528" | "2529" |
| ## | [2530] | "2530" | "2531" | "2532" | "2533" | "2534" | "2535" | "2536" | "2537" | "2538" |
| ## | [2539] | "2539" | "2540" | "2541" | "2542" | "2543" | "2544" | "2545" | "2546" | "2547" |
| ## | [2548] | "2548" | "2549" | "2550" | "2551" | "2552" | "2553" | "2554" | "2555" | "2556" |
| ## | [2557] | "2557" | "2558" | "2559" | "2560" | "2561" | "2562" | "2563" | "2564" | "2565" |
| ## | [2566] | "2566" | "2567" | "2568" | "2569" | "2570" | "2571" | "2572" | "2573" | "2574" |
| ## | [2575] | "2575" | "2576" | "2577" | "2578" | "2579" | "2580" | "2581" | "2582" | "2583" |
| ## | [2584] | "2584" | "2585" | "2586" | "2587" | "2588" | "2589" | "2590" | "2591" | "2592" |
| ## | [2593] | "2593" | "2594" | "2595" | "2596" | "2597" | "2598" | "2599" | "2600" | "2601" |
| ## | [2602] | "2602" | "2603" | "2604" | "2605" | "2606" | "2607" | "2608" | "2609" | "2610" |
| ## | [2611] | "2611" | "2612" | "2613" | "2614" | "2615" | "2616" | "2617" | "2618" | "2619" |
| ## | [2620] | "2620" | "2621" | "2622" | "2623" | "2624" | "2625" | "2626" | "2627" | "2628" |
| ## | [2629] | "2629" | "2630" | "2631" | "2632" | "2633" | "2634" | "2635" | "2636" | "2637" |
| ## | [2638] | "2638" | "2639" | "2640" | "2641" | "2642" | "2643" | "2644" | "2645" | "2646" |
| ## | [2647] | "2647" | "2648" | "2649" | "2650" | "2651" | "2652" | "2653" | "2654" | "2655" |
| ## | [2656] | "2656" | "2657" | "2658" | "2659" | "2660" | "2661" | "2662" | "2663" | "2664" |
| ## | [2665] | "2665" | "2666" | "2667" | "2668" | "2669" | "2670" | "2671" | "2672" | "2673" |
| ## | [2674] | "2674" | "2675" | "2676" | "2677" | "2678" | "2679" | "2680" | "2681" | "2682" |
| ## | [2683] | "2683" | "2684" | "2685" | "2686" | "2687" | "2688" | "2689" | "2690" | "2691" |

|    |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [2692] | "2692" | "2693" | "2694" | "2695" | "2696" | "2697" | "2698" | "2699" | "2700" |
| ## | [2701] | "2701" | "2702" | "2703" | "2704" | "2705" | "2706" | "2707" | "2708" | "2709" |
| ## | [2710] | "2710" | "2711" | "2712" | "2713" | "2714" | "2715" | "2716" | "2717" | "2718" |
| ## | [2719] | "2719" | "2720" | "2721" | "2722" | "2723" | "2724" | "2725" | "2726" | "2727" |
| ## | [2728] | "2728" | "2729" | "2730" | "2731" | "2732" | "2733" | "2734" | "2735" | "2736" |
| ## | [2737] | "2737" | "2738" | "2739" | "2740" | "2741" | "2742" | "2743" | "2744" | "2745" |
| ## | [2746] | "2746" | "2747" | "2748" | "2749" | "2750" | "2751" | "2752" | "2753" | "2754" |
| ## | [2755] | "2755" | "2756" | "2757" | "2758" | "2759" | "2760" | "2761" | "2762" | "2763" |
| ## | [2764] | "2764" | "2765" | "2766" | "2767" | "2768" | "2769" | "2770" | "2771" | "2772" |
| ## | [2773] | "2773" | "2774" | "2775" | "2776" | "2777" | "2778" | "2779" | "2780" | "2781" |
| ## | [2782] | "2782" | "2783" | "2784" | "2785" | "2786" | "2787" | "2788" | "2789" | "2790" |
| ## | [2791] | "2791" | "2792" | "2793" | "2794" | "2795" | "2796" | "2797" | "2798" | "2799" |
| ## | [2800] | "2800" | "2801" | "2802" | "2803" | "2804" | "2805" | "2806" | "2807" | "2808" |
| ## | [2809] | "2809" | "2810" | "2811" | "2812" | "2813" | "2814" | "2815" | "2816" | "2817" |
| ## | [2818] | "2818" | "2819" | "2820" | "2821" | "2822" | "2823" | "2824" | "2825" | "2826" |
| ## | [2827] | "2827" | "2828" | "2829" | "2830" | "2831" | "2832" | "2833" | "2834" | "2835" |
| ## | [2836] | "2836" | "2837" | "2838" | "2839" | "2840" | "2841" | "2842" | "2843" | "2844" |
| ## | [2845] | "2845" | "2846" | "2847" | "2848" | "2849" | "2850" | "2851" | "2852" | "2853" |
| ## | [2854] | "2854" | "2855" | "2856" | "2857" | "2858" | "2859" | "2860" | "2861" | "2862" |
| ## | [2863] | "2863" | "2864" | "2865" | "2866" | "2867" | "2868" | "2869" | "2870" | "2871" |
| ## | [2872] | "2872" | "2873" | "2874" | "2875" | "2876" | "2877" | "2878" | "2879" | "2880" |
| ## | [2881] | "2881" | "2882" | "2883" | "2884" | "2885" | "2886" | "2887" | "2888" | "2889" |
| ## | [2890] | "2890" | "2891" | "2892" | "2893" | "2894" | "2895" | "2896" | "2897" | "2898" |
| ## | [2899] | "2899" | "2900" | "2901" | "2902" | "2903" | "2904" | "2905" | "2906" | "2907" |
| ## | [2908] | "2908" | "2909" | "2910" | "2911" | "2912" | "2913" | "2914" | "2915" | "2916" |
| ## | [2917] | "2917" | "2918" | "2919" | "2920" | "2921" | "2922" | "2923" | "2924" | "2925" |
| ## | [2926] | "2926" | "2927" | "2928" | "2929" | "2930" | "2931" | "2932" | "2933" | "2934" |
| ## | [2935] | "2935" | "2936" | "2937" | "2938" | "2939" | "2940" | "2941" | "2942" | "2943" |
| ## | [2944] | "2944" | "2945" | "2946" | "2947" | "2948" | "2949" | "2950" | "2951" | "2952" |
| ## | [2953] | "2953" | "2954" | "2955" | "2956" | "2957" | "2958" | "2959" | "2960" | "2961" |
| ## | [2962] | "2962" | "2963" | "2964" | "2965" | "2966" | "2967" | "2968" | "2969" | "2970" |
| ## | [2971] | "2971" | "2972" | "2973" | "2974" | "2975" | "2976" | "2977" | "2978" | "2979" |
| ## | [2980] | "2980" | "2981" | "2982" | "2983" | "2984" | "2985" | "2986" | "2987" | "2988" |
| ## | [2989] | "2989" | "2990" | "2991" | "2992" | "2993" | "2994" | "2995" | "2996" | "2997" |
| ## | [2998] | "2998" | "2999" | "3000" | "3001" | "3002" | "3003" | "3004" | "3005" | "3006" |
| ## | [3007] | "3007" | "3008" | "3009" | "3010" | "3011" | "3012" | "3013" | "3014" | "3015" |
| ## | [3016] | "3016" | "3017" | "3018" | "3019" | "3020" | "3021" | "3022" | "3023" | "3024" |
| ## | [3025] | "3025" | "3026" | "3027" | "3028" | "3029" | "3030" | "3031" | "3032" | "3033" |
| ## | [3034] | "3034" | "3035" | "3036" | "3037" | "3038" | "3039" | "3040" | "3041" | "3042" |
| ## | [3043] | "3043" | "3044" | "3045" | "3046" | "3047" | "3048" | "3049" | "3050" | "3051" |
| ## | [3052] | "3052" | "3053" | "3054" | "3055" | "3056" | "3057" | "3058" | "3059" | "3060" |
| ## | [3061] | "3061" | "3062" | "3063" | "3064" | "3065" | "3066" | "3067" | "3068" | "3069" |
| ## | [3070] | "3070" | "3071" | "3072" | "3073" | "3074" | "3075" | "3076" | "3077" | "3078" |
| ## | [3079] | "3079" | "3080" | "3081" | "3082" | "3083" | "3084" | "3085" | "3086" | "3087" |
| ## | [3088] | "3088" | "3089" | "3090" | "3091" | "3092" | "3093" | "3094" | "3095" | "3096" |
| ## | [3097] | "3097" | "3098" | "3099" | "3100" | "3101" | "3102" | "3103" | "3104" | "3105" |
| ## | [3106] | "3106" | "3107" | "3108" | "3109" | "3110" | "3111" | "3112" | "3113" | "3114" |
| ## | [3115] | "3115" | "3116" | "3117" | "3118" | "3119" | "3120" | "3121" | "3122" | "3123" |
| ## | [3124] | "3124" | "3125" | "3126" | "3127" | "3128" | "3129" | "3130" | "3131" | "3132" |
| ## | [3133] | "3133" | "3134" | "3135" | "3136" | "3137" | "3138" | "3139" | "3140" | "3141" |
| ## | [3142] | "3142" | "3143" | "3144" | "3145" | "3146" | "3147" | "3148" | "3149" | "3150" |
| ## | [3151] | "3151" | "3152" | "3153" | "3154" | "3155" | "3156" | "3157" | "3158" | "3159" |
| ## | [3160] | "3160" | "3161" | "3162" | "3163" | "3164" | "3165" | "3166" | "3167" | "3168" |
| ## | [3169] | "3169" | "3170" | "3171" | "3172" | "3173" | "3174" | "3175" | "3176" | "3177" |

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| ## | [3187] | "3187" | "3188" | "3189" | "3190" | "3191" | "3192" | "3193" | "3194" | "3195" |
| ## | [3196] | "3196" | "3197" | "3198" | "3199" | "3200" | "3201" | "3202" | "3203" | "3204" |
| ## | [3205] | "3205" | "3206" | "3207" | "3208" | "3209" | "3210" | "3211" | "3212" | "3213" |
| ## | [3214] | "3214" | "3215" | "3216" | "3217" | "3218" | "3219" | "3220" | "3221" | "3222" |
| ## | [3223] | "3223" | "3224" | "3225" | "3226" | "3227" | "3228" | "3229" | "3230" | "3231" |
| ## | [3232] | "3232" | "3233" | "3234" | "3235" | "3236" | "3237" | "3238" | "3239" | "3240" |
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| ## | [3259] | "3259" | "3260" | "3261" | "3262" | "3263" | "3264" | "3265" | "3266" | "3267" |
| ## | [3268] | "3268" | "3269" | "3270" | "3271" | "3272" | "3273" | "3274" | "3275" | "3276" |
| ## | [3277] | "3277" | "3278" | "3279" | "3280" | "3281" | "3282" | "3283" | "3284" | "3285" |
| ## | [3286] | "3286" | "3287" | "3288" | "3289" | "3290" | "3291" | "3292" | "3293" | "3294" |
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| ## | [3403] | "3403" | "3404" | "3405" | "3406" | "3407" | "3408" | "3409" | "3410" | "3411" |
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| ## | [3646] | "3646" | "3647" | "3648" | "3649" | "3650" | "3651" | "3652" | "3653" | "3654" |
| ## | [3655] | "3655" | "3656" | "3657" | "3658" | "3659" | "3660" | "3661" | "3662" | "3663" |

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|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [3664] | "3664" | "3665" | "3666" | "3667" | "3668" | "3669" | "3670" | "3671" | "3672" |
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| ## | [4159] | "4159" | "4160" | "4161" | "4162" | "4163" | "4164" | "4165" | "4166" | "4167" |
| ## | [4168] | "4168" | "4169" | "4170" | "4171" | "4172" | "4173" | "4174" | "4175" | "4176" |
| ## | [4177] | "4177" | "4178" | "4179" | "4180" | "4181" | "4182" | "4183" | "4184" | "4185" |
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| ## | [4582] | "4582" | "4583" | "4584" | "4585" | "4586" | "4587" | "4588" | "4589" | "4590" |
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| ## | [4600] | "4600" | "4601" | "4602" | "4603" | "4604" | "4605" | "4606" | "4607" | "4608" |
| ## | [4609] | "4609" | "4610" | "4611" | "4612" | "4613" | "4614" | "4615" | "4616" | "4617" |
| ## | [4618] | "4618" | "4619" | "4620" | "4621" | "4622" | "4623" | "4624" | "4625" | "4626" |
| ## | [4627] | "4627" | "4628" | "4629" | "4630" | "4631" | "4632" | "4633" | "4634" | "4635" |

|    |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [4636] | "4636" | "4637" | "4638" | "4639" | "4640" | "4641" | "4642" | "4643" | "4644" |
| ## | [4645] | "4645" | "4646" | "4647" | "4648" | "4649" | "4650" | "4651" | "4652" | "4653" |
| ## | [4654] | "4654" | "4655" | "4656" | "4657" | "4658" | "4659" | "4660" | "4661" | "4662" |
| ## | [4663] | "4663" | "4664" | "4665" | "4666" | "4667" | "4668" | "4669" | "4670" | "4671" |
| ## | [4672] | "4672" | "4673" | "4674" | "4675" | "4676" | "4677" | "4678" | "4679" | "4680" |
| ## | [4681] | "4681" | "4682" | "4683" | "4684" | "4685" | "4686" | "4687" | "4688" | "4689" |
| ## | [4690] | "4690" | "4691" | "4692" | "4693" | "4694" | "4695" | "4696" | "4697" | "4698" |
| ## | [4699] | "4699" | "4700" | "4701" | "4702" | "4703" | "4704" | "4705" | "4706" | "4707" |
| ## | [4708] | "4708" | "4709" | "4710" | "4711" | "4712" | "4713" | "4714" | "4715" | "4716" |
| ## | [4717] | "4717" | "4718" | "4719" | "4720" | "4721" | "4722" | "4723" | "4724" | "4725" |
| ## | [4726] | "4726" | "4727" | "4728" | "4729" | "4730" | "4731" | "4732" | "4733" | "4734" |
| ## | [4735] | "4735" | "4736" | "4737" | "4738" | "4739" | "4740" | "4741" | "4742" | "4743" |
| ## | [4744] | "4744" | "4745" | "4746" | "4747" | "4748" | "4749" | "4750" | "4751" | "4752" |
| ## | [4753] | "4753" | "4754" | "4755" | "4756" | "4757" | "4758" | "4759" | "4760" | "4761" |
| ## | [4762] | "4762" | "4763" | "4764" | "4765" | "4766" | "4767" | "4768" | "4769" | "4770" |
| ## | [4771] | "4771" | "4772" | "4773" | "4774" | "4775" | "4776" | "4777" | "4778" | "4779" |
| ## | [4780] | "4780" | "4781" | "4782" | "4783" | "4784" | "4785" | "4786" | "4787" | "4788" |
| ## | [4789] | "4789" | "4790" | "4791" | "4792" | "4793" | "4794" | "4795" | "4796" | "4797" |
| ## | [4798] | "4798" | "4799" | "4800" | "4801" | "4802" | "4803" | "4804" | "4805" | "4806" |
| ## | [4807] | "4807" | "4808" | "4809" | "4810" | "4811" | "4812" | "4813" | "4814" | "4815" |
| ## | [4816] | "4816" | "4817" | "4818" | "4819" | "4820" | "4821" | "4822" | "4823" | "4824" |
| ## | [4825] | "4825" | "4826" | "4827" | "4828" | "4829" | "4830" | "4831" | "4832" | "4833" |
| ## | [4834] | "4834" | "4835" | "4836" | "4837" | "4838" | "4839" | "4840" | "4841" | "4842" |
| ## | [4843] | "4843" | "4844" | "4845" | "4846" | "4847" | "4848" | "4849" | "4850" | "4851" |
| ## | [4852] | "4852" | "4853" | "4854" | "4855" | "4856" | "4857" | "4858" | "4859" | "4860" |
| ## | [4861] | "4861" | "4862" | "4863" | "4864" | "4865" | "4866" | "4867" | "4868" | "4869" |
| ## | [4870] | "4870" | "4871" | "4872" | "4873" | "4874" | "4875" | "4876" | "4877" | "4878" |
| ## | [4879] | "4879" | "4880" | "4881" | "4882" | "4883" | "4884" | "4885" | "4886" | "4887" |
| ## | [4888] | "4888" | "4889" | "4890" | "4891" | "4892" | "4893" | "4894" | "4895" | "4896" |
| ## | [4897] | "4897" | "4898" | "4899" | "4900" | "4901" | "4902" | "4903" | "4904" | "4905" |
| ## | [4906] | "4906" | "4907" | "4908" | "4909" | "4910" | "4911" | "4912" | "4913" | "4914" |
| ## | [4915] | "4915" | "4916" | "4917" | "4918" | "4919" | "4920" | "4921" | "4922" | "4923" |
| ## | [4924] | "4924" | "4925" | "4926" | "4927" | "4928" | "4929" | "4930" | "4931" | "4932" |
| ## | [4933] | "4933" | "4934" | "4935" | "4936" | "4937" | "4938" | "4939" | "4940" | "4941" |
| ## | [4942] | "4942" | "4943" | "4944" | "4945" | "4946" | "4947" | "4948" | "4949" | "4950" |
| ## | [4951] | "4951" | "4952" | "4953" | "4954" | "4955" | "4956" | "4957" | "4958" | "4959" |
| ## | [4960] | "4960" | "4961" | "4962" | "4963" | "4964" | "4965" | "4966" | "4967" | "4968" |
| ## | [4969] | "4969" | "4970" | "4971" | "4972" | "4973" | "4974" | "4975" | "4976" | "4977" |
| ## | [4978] | "4978" | "4979" | "4980" | "4981" | "4982" | "4983" | "4984" | "4985" | "4986" |
| ## | [4987] | "4987" | "4988" | "4989" | "4990" | "4991" | "4992" | "4993" | "4994" | "4995" |
| ## | [4996] | "4996" | "4997" | "4998" | "4999" | "5000" | "5001" | "5002" | "5003" | "5004" |
| ## | [5005] | "5005" | "5006" | "5007" | "5008" | "5009" | "5010" | "5011" | "5012" | "5013" |
| ## | [5014] | "5014" | "5015" | "5016" | "5017" | "5018" | "5019" | "5020" | "5021" | "5022" |
| ## | [5023] | "5023" | "5024" | "5025" | "5026" | "5027" | "5028" | "5029" | "5030" | "5031" |
| ## | [5032] | "5032" | "5033" | "5034" | "5035" | "5036" | "5037" | "5038" | "5039" | "5040" |
| ## | [5041] | "5041" | "5042" | "5043" | "5044" | "5045" | "5046" | "5047" | "5048" | "5049" |
| ## | [5050] | "5050" | "5051" | "5052" | "5053" | "5054" | "5055" | "5056" | "5057" | "5058" |
| ## | [5059] | "5059" | "5060" | "5061" | "5062" | "5063" | "5064" | "5065" | "5066" | "5067" |
| ## | [5068] | "5068" | "5069" | "5070" | "5071" | "5072" | "5073" | "5074" | "5075" | "5076" |
| ## | [5077] | "5077" | "5078" | "5079" | "5080" | "5081" | "5082" | "5083" | "5084" | "5085" |
| ## | [5086] | "5086" | "5087" | "5088" | "5089" | "5090" | "5091" | "5092" | "5093" | "5094" |
| ## | [5095] | "5095" | "5096" | "5097" | "5098" | "5099" | "5100" | "5101" | "5102" | "5103" |
| ## | [5104] | "5104" | "5105" | "5106" | "5107" | "5108" | "5109" | "5110" | "5111" | "5112" |
| ## | [5113] | "5113" | "5114" | "5115" | "5116" | "5117" | "5118" | "5119" | "5120" | "5121" |



|    |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [5122] | "5122" | "5123" | "5124" | "5125" | "5126" | "5127" | "5128" | "5129" | "5130" |
| ## | [5131] | "5131" | "5132" | "5133" | "5134" | "5135" | "5136" | "5137" | "5138" | "5139" |
| ## | [5140] | "5140" | "5141" | "5142" | "5143" | "5144" | "5145" | "5146" | "5147" | "5148" |
| ## | [5149] | "5149" | "5150" | "5151" | "5152" | "5153" | "5154" | "5155" | "5156" | "5157" |
| ## | [5158] | "5158" | "5159" | "5160" | "5161" | "5162" | "5163" | "5164" | "5165" | "5166" |
| ## | [5167] | "5167" | "5168" | "5169" | "5170" | "5171" | "5172" | "5173" | "5174" | "5175" |
| ## | [5176] | "5176" | "5177" | "5178" | "5179" | "5180" | "5181" | "5182" | "5183" | "5184" |
| ## | [5185] | "5185" | "5186" | "5187" | "5188" | "5189" | "5190" | "5191" | "5192" | "5193" |
| ## | [5194] | "5194" | "5195" | "5196" | "5197" | "5198" | "5199" | "5200" | "5201" | "5202" |
| ## | [5203] | "5203" | "5204" | "5205" | "5206" | "5207" | "5208" | "5209" | "5210" | "5211" |
| ## | [5212] | "5212" | "5213" | "5214" | "5215" | "5216" | "5217" | "5218" | "5219" | "5220" |
| ## | [5221] | "5221" | "5222" | "5223" | "5224" | "5225" | "5226" | "5227" | "5228" | "5229" |
| ## | [5230] | "5230" | "5231" | "5232" | "5233" | "5234" | "5235" | "5236" | "5237" | "5238" |
| ## | [5239] | "5239" | "5240" | "5241" | "5242" | "5243" | "5244" | "5245" | "5246" | "5247" |
| ## | [5248] | "5248" | "5249" | "5250" | "5251" | "5252" | "5253" | "5254" | "5255" | "5256" |
| ## | [5257] | "5257" | "5258" | "5259" | "5260" | "5261" | "5262" | "5263" | "5264" | "5265" |
| ## | [5266] | "5266" | "5267" | "5268" | "5269" | "5270" | "5271" | "5272" | "5273" | "5274" |
| ## | [5275] | "5275" | "5276" | "5277" | "5278" | "5279" | "5280" | "5281" | "5282" | "5283" |
| ## | [5284] | "5284" | "5285" | "5286" | "5287" | "5288" | "5289" | "5290" | "5291" | "5292" |
| ## | [5293] | "5293" | "5294" | "5295" | "5296" | "5297" | "5298" | "5299" | "5300" | "5301" |
| ## | [5302] | "5302" | "5303" | "5304" | "5305" | "5306" | "5307" | "5308" | "5309" | "5310" |
| ## | [5311] | "5311" | "5312" | "5313" | "5314" | "5315" | "5316" | "5317" | "5318" | "5319" |
| ## | [5320] | "5320" | "5321" | "5322" | "5323" | "5324" | "5325" | "5326" | "5327" | "5328" |
| ## | [5329] | "5329" | "5330" | "5331" | "5332" | "5333" | "5334" | "5335" | "5336" | "5337" |
| ## | [5338] | "5338" | "5339" | "5340" | "5341" | "5342" | "5343" | "5344" | "5345" | "5346" |
| ## | [5347] | "5347" | "5348" | "5349" | "5350" | "5351" | "5352" | "5353" | "5354" | "5355" |
| ## | [5356] | "5356" | "5357" | "5358" | "5359" | "5360" | "5361" | "5362" | "5363" | "5364" |
| ## | [5365] | "5365" | "5366" | "5367" | "5368" | "5369" | "5370" | "5371" | "5372" | "5373" |
| ## | [5374] | "5374" | "5375" | "5376" | "5377" | "5378" | "5379" | "5380" | "5381" | "5382" |
| ## | [5383] | "5383" | "5384" | "5385" | "5386" | "5387" | "5388" | "5389" | "5390" | "5391" |
| ## | [5392] | "5392" | "5393" | "5394" | "5395" | "5396" | "5397" | "5398" | "5399" | "5400" |
| ## | [5401] | "5401" | "5402" | "5403" | "5404" | "5405" | "5406" | "5407" | "5408" | "5409" |
| ## | [5410] | "5410" | "5411" | "5412" | "5413" | "5414" | "5415" | "5416" | "5417" | "5418" |
| ## | [5419] | "5419" | "5420" | "5421" | "5422" | "5423" | "5424" | "5425" | "5426" | "5427" |
| ## | [5428] | "5428" | "5429" | "5430" | "5431" | "5432" | "5433" | "5434" | "5435" | "5436" |
| ## | [5437] | "5437" | "5438" | "5439" | "5440" | "5441" | "5442" | "5443" | "5444" | "5445" |
| ## | [5446] | "5446" | "5447" | "5448" | "5449" | "5450" | "5451" | "5452" | "5453" | "5454" |
| ## | [5455] | "5455" | "5456" | "5457" | "5458" | "5459" | "5460" | "5461" | "5462" | "5463" |
| ## | [5464] | "5464" | "5465" | "5466" | "5467" | "5468" | "5469" | "5470" | "5471" | "5472" |
| ## | [5473] | "5473" | "5474" | "5475" | "5476" | "5477" | "5478" | "5479" | "5480" | "5481" |
| ## | [5482] | "5482" | "5483" | "5484" | "5485" | "5486" | "5487" | "5488" | "5489" | "5490" |
| ## | [5491] | "5491" | "5492" | "5493" | "5494" | "5495" | "5496" | "5497" | "5498" | "5499" |
| ## | [5500] | "5500" | "5501" | "5502" | "5503" | "5504" | "5505" | "5506" | "5507" | "5508" |
| ## | [5509] | "5509" | "5510" | "5511" | "5512" | "5513" | "5514" | "5515" | "5516" | "5517" |
| ## | [5518] | "5518" | "5519" | "5520" | "5521" | "5522" | "5523" | "5524" | "5525" | "5526" |
| ## | [5527] | "5527" | "5528" | "5529" | "5530" | "5531" | "5532" | "5533" | "5534" | "5535" |
| ## | [5536] | "5536" | "5537" | "5538" | "5539" | "5540" | "5541" | "5542" | "5543" | "5544" |
| ## | [5545] | "5545" | "5546" | "5547" | "5548" | "5549" | "5550" | "5551" | "5552" | "5553" |
| ## | [5554] | "5554" | "5555" | "5556" | "5557" | "5558" | "5559" | "5560" | "5561" | "5562" |
| ## | [5563] | "5563" | "5564" | "5565" | "5566" | "5567" | "5568" | "5569" | "5570" | "5571" |
| ## | [5572] | "5572" | "5573" | "5574" | "5575" | "5576" | "5577" | "5578" | "5579" | "5580" |
| ## | [5581] | "5581" | "5582" | "5583" | "5584" | "5585" | "5586" | "5587" | "5588" | "5589" |
| ## | [5590] | "5590" | "5591" | "5592" | "5593" | "5594" | "5595" | "5596" | "5597" | "5598" |
| ## | [5599] | "5599" | "5600" | "5601" | "5602" | "5603" | "5604" | "5605" | "5606" | "5607" |

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|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [5608] | "5608" | "5609" | "5610" | "5611" | "5612" | "5613" | "5614" | "5615" | "5616" |
| ## | [5617] | "5617" | "5618" | "5619" | "5620" | "5621" | "5622" | "5623" | "5624" | "5625" |
| ## | [5626] | "5626" | "5627" | "5628" | "5629" | "5630" | "5631" | "5632" | "5633" | "5634" |
| ## | [5635] | "5635" | "5636" | "5637" | "5638" | "5639" | "5640" | "5641" | "5642" | "5643" |
| ## | [5644] | "5644" | "5645" | "5646" | "5647" | "5648" | "5649" | "5650" | "5651" | "5652" |
| ## | [5653] | "5653" | "5654" | "5655" | "5656" | "5657" | "5658" | "5659" | "5660" | "5661" |
| ## | [5662] | "5662" | "5663" | "5664" | "5665" | "5666" | "5667" | "5668" | "5669" | "5670" |
| ## | [5671] | "5671" | "5672" | "5673" | "5674" | "5675" | "5676" | "5677" | "5678" | "5679" |
| ## | [5680] | "5680" | "5681" | "5682" | "5683" | "5684" | "5685" | "5686" | "5687" | "5688" |
| ## | [5689] | "5689" | "5690" | "5691" | "5692" | "5693" | "5694" | "5695" | "5696" | "5697" |
| ## | [5698] | "5698" | "5699" | "5700" | "5701" | "5702" | "5703" | "5704" | "5705" | "5706" |
| ## | [5707] | "5707" | "5708" | "5709" | "5710" | "5711" | "5712" | "5713" | "5714" | "5715" |
| ## | [5716] | "5716" | "5717" | "5718" | "5719" | "5720" | "5721" | "5722" | "5723" | "5724" |
| ## | [5725] | "5725" | "5726" | "5727" | "5728" | "5729" | "5730" | "5731" | "5732" | "5733" |
| ## | [5734] | "5734" | "5735" | "5736" | "5737" | "5738" | "5739" | "5740" | "5741" | "5742" |
| ## | [5743] | "5743" | "5744" | "5745" | "5746" | "5747" | "5748" | "5749" | "5750" | "5751" |
| ## | [5752] | "5752" | "5753" | "5754" | "5755" | "5756" | "5757" | "5758" | "5759" | "5760" |
| ## | [5761] | "5761" | "5762" | "5763" | "5764" | "5765" | "5766" | "5767" | "5768" | "5769" |
| ## | [5770] | "5770" | "5771" | "5772" | "5773" | "5774" | "5775" | "5776" | "5777" | "5778" |
| ## | [5779] | "5779" | "5780" | "5781" | "5782" | "5783" | "5784" | "5785" | "5786" | "5787" |
| ## | [5788] | "5788" | "5789" | "5790" | "5791" | "5792" | "5793" | "5794" | "5795" | "5796" |
| ## | [5797] | "5797" | "5798" | "5799" | "5800" | "5801" | "5802" | "5803" | "5804" | "5805" |
| ## | [5806] | "5806" | "5807" | "5808" | "5809" | "5810" | "5811" | "5812" | "5813" | "5814" |
| ## | [5815] | "5815" | "5816" | "5817" | "5818" | "5819" | "5820" | "5821" | "5822" | "5823" |
| ## | [5824] | "5824" | "5825" | "5826" | "5827" | "5828" | "5829" | "5830" | "5831" | "5832" |
| ## | [5833] | "5833" | "5834" | "5835" | "5836" | "5837" | "5838" | "5839" | "5840" | "5841" |
| ## | [5842] | "5842" | "5843" | "5844" | "5845" | "5846" | "5847" | "5848" | "5849" | "5850" |
| ## | [5851] | "5851" | "5852" | "5853" | "5854" | "5855" | "5856" | "5857" | "5858" | "5859" |
| ## | [5860] | "5860" | "5861" | "5862" | "5863" | "5864" | "5865" | "5866" | "5867" | "5868" |
| ## | [5869] | "5869" | "5870" | "5871" | "5872" | "5873" | "5874" | "5875" | "5876" | "5877" |
| ## | [5878] | "5878" | "5879" | "5880" | "5881" | "5882" | "5883" | "5884" | "5885" | "5886" |
| ## | [5887] | "5887" | "5888" | "5889" | "5890" | "5891" | "5892" | "5893" | "5894" | "5895" |
| ## | [5896] | "5896" | "5897" | "5898" | "5899" | "5900" | "5901" | "5902" | "5903" | "5904" |
| ## | [5905] | "5905" | "5906" | "5907" | "5908" | "5909" | "5910" | "5911" | "5912" | "5913" |
| ## | [5914] | "5914" | "5915" | "5916" | "5917" | "5918" | "5919" | "5920" | "5921" | "5922" |
| ## | [5923] | "5923" | "5924" | "5925" | "5926" | "5927" | "5928" | "5929" | "5930" | "5931" |
| ## | [5932] | "5932" | "5933" | "5934" | "5935" | "5936" | "5937" | "5938" | "5939" | "5940" |
| ## | [5941] | "5941" | "5942" | "5943" | "5944" | "5945" | "5946" | "5947" | "5948" | "5949" |
| ## | [5950] | "5950" | "5951" | "5952" | "5953" | "5954" | "5955" | "5956" | "5957" | "5958" |
| ## | [5959] | "5959" | "5960" | "5961" | "5962" | "5963" | "5964" | "5965" | "5966" | "5967" |
| ## | [5968] | "5968" | "5969" | "5970" | "5971" | "5972" | "5973" | "5974" | "5975" | "5976" |
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| ## | [6085] | "6085" | "6086" | "6087" | "6088" | "6089" | "6090" | "6091" | "6092" | "6093" |

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|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [6094] | "6094" | "6095" | "6096" | "6097" | "6098" | "6099" | "6100" | "6101" | "6102" |
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| ## | [6166] | "6166" | "6167" | "6168" | "6169" | "6170" | "6171" | "6172" | "6173" | "6174" |
| ## | [6175] | "6175" | "6176" | "6177" | "6178" | "6179" | "6180" | "6181" | "6182" | "6183" |
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| ## | [6202] | "6202" | "6203" | "6204" | "6205" | "6206" | "6207" | "6208" | "6209" | "6210" |
| ## | [6211] | "6211" | "6212" | "6213" | "6214" | "6215" | "6216" | "6217" | "6218" | "6219" |
| ## | [6220] | "6220" | "6221" | "6222" | "6223" | "6224" | "6225" | "6226" | "6227" | "6228" |
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| ## | [6301] | "6301" | "6302" | "6303" | "6304" | "6305" | "6306" | "6307" | "6308" | "6309" |
| ## | [6310] | "6310" | "6311" | "6312" | "6313" | "6314" | "6315" | "6316" | "6317" | "6318" |
| ## | [6319] | "6319" | "6320" | "6321" | "6322" | "6323" | "6324" | "6325" | "6326" | "6327" |
| ## | [6328] | "6328" | "6329" | "6330" | "6331" | "6332" | "6333" | "6334" | "6335" | "6336" |
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| ## | [6517] | "6517" | "6518" | "6519" | "6520" | "6521" | "6522" | "6523" | "6524" | "6525" |
| ## | [6526] | "6526" | "6527" | "6528" | "6529" | "6530" | "6531" | "6532" | "6533" | "6534" |
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| ## | [6571] | "6571" | "6572" | "6573" | "6574" | "6575" | "6576" | "6577" | "6578" | "6579" |

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| ## | [6580] | "6580" | "6581" | "6582" | "6583" | "6584" | "6585" | "6586" | "6587" | "6588" |
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| ## | [6598] | "6598" | "6599" | "6600" | "6601" | "6602" | "6603" | "6604" | "6605" | "6606" |
| ## | [6607] | "6607" | "6608" | "6609" | "6610" | "6611" | "6612" | "6613" | "6614" | "6615" |
| ## | [6616] | "6616" | "6617" | "6618" | "6619" | "6620" | "6621" | "6622" | "6623" | "6624" |
| ## | [6625] | "6625" | "6626" | "6627" | "6628" | "6629" | "6630" | "6631" | "6632" | "6633" |
| ## | [6634] | "6634" | "6635" | "6636" | "6637" | "6638" | "6639" | "6640" | "6641" | "6642" |
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| ## | [6679] | "6679" | "6680" | "6681" | "6682" | "6683" | "6684" | "6685" | "6686" | "6687" |
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| ## | [6742] | "6742" | "6743" | "6744" | "6745" | "6746" | "6747" | "6748" | "6749" | "6750" |
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| ## | [6778] | "6778" | "6779" | "6780" | "6781" | "6782" | "6783" | "6784" | "6785" | "6786" |
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| ## | [7012] | "7012" | "7013" | "7014" | "7015" | "7016" | "7017" | "7018" | "7019" | "7020" |
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| ## | [7057] | "7057" | "7058" | "7059" | "7060" | "7061" | "7062" | "7063" | "7064" | "7065" |

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| ## | [7066] | "7066" | "7067" | "7068" | "7069" | "7070" | "7071" | "7072" | "7073" | "7074" |
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| ## | [7102] | "7102" | "7103" | "7104" | "7105" | "7106" | "7107" | "7108" | "7109" | "7110" |
| ## | [7111] | "7111" | "7112" | "7113" | "7114" | "7115" | "7116" | "7117" | "7118" | "7119" |
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| ## | [7174] | "7174" | "7175" | "7176" | "7177" | "7178" | "7179" | "7180" | "7181" | "7182" |
| ## | [7183] | "7183" | "7184" | "7185" | "7186" | "7187" | "7188" | "7189" | "7190" | "7191" |
| ## | [7192] | "7192" | "7193" | "7194" | "7195" | "7196" | "7197" | "7198" | "7199" | "7200" |
| ## | [7201] | "7201" | "7202" | "7203" | "7204" | "7205" | "7206" | "7207" | "7208" | "7209" |
| ## | [7210] | "7210" | "7211" | "7212" | "7213" | "7214" | "7215" | "7216" | "7217" | "7218" |
| ## | [7219] | "7219" | "7220" | "7221" | "7222" | "7223" | "7224" | "7225" | "7226" | "7227" |
| ## | [7228] | "7228" | "7229" | "7230" | "7231" | "7232" | "7233" | "7234" | "7235" | "7236" |
| ## | [7237] | "7237" | "7238" | "7239" | "7240" | "7241" | "7242" | "7243" | "7244" | "7245" |
| ## | [7246] | "7246" | "7247" | "7248" | "7249" | "7250" | "7251" | "7252" | "7253" | "7254" |
| ## | [7255] | "7255" | "7256" | "7257" | "7258" | "7259" | "7260" | "7261" | "7262" | "7263" |
| ## | [7264] | "7264" | "7265" | "7266" | "7267" | "7268" | "7269" | "7270" | "7271" | "7272" |
| ## | [7273] | "7273" | "7274" | "7275" | "7276" | "7277" | "7278" | "7279" | "7280" | "7281" |
| ## | [7282] | "7282" | "7283" | "7284" | "7285" | "7286" | "7287" | "7288" | "7289" | "7290" |
| ## | [7291] | "7291" | "7292" | "7293" | "7294" | "7295" | "7296" | "7297" | "7298" | "7299" |
| ## | [7300] | "7300" | "7301" | "7302" | "7303" | "7304" | "7305" | "7306" | "7307" | "7308" |
| ## | [7309] | "7309" | "7310" | "7311" | "7312" | "7313" | "7314" | "7315" | "7316" | "7317" |
| ## | [7318] | "7318" | "7319" | "7320" | "7321" | "7322" | "7323" | "7324" | "7325" | "7326" |
| ## | [7327] | "7327" | "7328" | "7329" | "7330" | "7331" | "7332" | "7333" | "7334" | "7335" |
| ## | [7336] | "7336" | "7337" | "7338" | "7339" | "7340" | "7341" | "7342" | "7343" | "7344" |
| ## | [7345] | "7345" | "7346" | "7347" | "7348" | "7349" | "7350" | "7351" | "7352" | "7353" |
| ## | [7354] | "7354" | "7355" | "7356" | "7357" | "7358" | "7359" | "7360" | "7361" | "7362" |
| ## | [7363] | "7363" | "7364" | "7365" | "7366" | "7367" | "7368" | "7369" | "7370" | "7371" |
| ## | [7372] | "7372" | "7373" | "7374" | "7375" | "7376" | "7377" | "7378" | "7379" | "7380" |
| ## | [7381] | "7381" | "7382" | "7383" | "7384" | "7385" | "7386" | "7387" | "7388" | "7389" |
| ## | [7390] | "7390" | "7391" | "7392" | "7393" | "7394" | "7395" | "7396" | "7397" | "7398" |
| ## | [7399] | "7399" | "7400" | "7401" | "7402" | "7403" | "7404" | "7405" | "7406" | "7407" |
| ## | [7408] | "7408" | "7409" | "7410" | "7411" | "7412" | "7413" | "7414" | "7415" | "7416" |
| ## | [7417] | "7417" | "7418" | "7419" | "7420" | "7421" | "7422" | "7423" | "7424" | "7425" |
| ## | [7426] | "7426" | "7427" | "7428" | "7429" | "7430" | "7431" | "7432" | "7433" | "7434" |
| ## | [7435] | "7435" | "7436" | "7437" | "7438" | "7439" | "7440" | "7441" | "7442" | "7443" |
| ## | [7444] | "7444" | "7445" | "7446" | "7447" | "7448" | "7449" | "7450" | "7451" | "7452" |
| ## | [7453] | "7453" | "7454" | "7455" | "7456" | "7457" | "7458" | "7459" | "7460" | "7461" |
| ## | [7462] | "7462" | "7463" | "7464" | "7465" | "7466" | "7467" | "7468" | "7469" | "7470" |
| ## | [7471] | "7471" | "7472" | "7473" | "7474" | "7475" | "7476" | "7477" | "7478" | "7479" |
| ## | [7480] | "7480" | "7481" | "7482" | "7483" | "7484" | "7485" | "7486" | "7487" | "7488" |
| ## | [7489] | "7489" | "7490" | "7491" | "7492" | "7493" | "7494" | "7495" | "7496" | "7497" |
| ## | [7498] | "7498" | "7499" | "7500" | "7501" | "7502" | "7503" | "7504" | "7505" | "7506" |
| ## | [7507] | "7507" | "7508" | "7509" | "7510" | "7511" | "7512" | "7513" | "7514" | "7515" |
| ## | [7516] | "7516" | "7517" | "7518" | "7519" | "7520" | "7521" | "7522" | "7523" | "7524" |
| ## | [7525] | "7525" | "7526" | "7527" | "7528" | "7529" | "7530" | "7531" | "7532" | "7533" |
| ## | [7534] | "7534" | "7535" | "7536" | "7537" | "7538" | "7539" | "7540" | "7541" | "7542" |
| ## | [7543] | "7543" | "7544" | "7545" | "7546" | "7547" | "7548" | "7549" | "7550" | "7551" |

|    |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [7552] | "7552" | "7553" | "7554" | "7555" | "7556" | "7557" | "7558" | "7559" | "7560" |
| ## | [7561] | "7561" | "7562" | "7563" | "7564" | "7565" | "7566" | "7567" | "7568" | "7569" |
| ## | [7570] | "7570" | "7571" | "7572" | "7573" | "7574" | "7575" | "7576" | "7577" | "7578" |
| ## | [7579] | "7579" | "7580" | "7581" | "7582" | "7583" | "7584" | "7585" | "7586" | "7587" |
| ## | [7588] | "7588" | "7589" | "7590" | "7591" | "7592" | "7593" | "7594" | "7595" | "7596" |
| ## | [7597] | "7597" | "7598" | "7599" | "7600" | "7601" | "7602" | "7603" | "7604" | "7605" |
| ## | [7606] | "7606" | "7607" | "7608" | "7609" | "7610" | "7611" | "7612" | "7613" | "7614" |
| ## | [7615] | "7615" | "7616" | "7617" | "7618" | "7619" | "7620" | "7621" | "7622" | "7623" |
| ## | [7624] | "7624" | "7625" | "7626" | "7627" | "7628" | "7629" | "7630" | "7631" | "7632" |
| ## | [7633] | "7633" | "7634" | "7635" | "7636" | "7637" | "7638" | "7639" | "7640" | "7641" |
| ## | [7642] | "7642" | "7643" | "7644" | "7645" | "7646" | "7647" | "7648" | "7649" | "7650" |
| ## | [7651] | "7651" | "7652" | "7653" | "7654" | "7655" | "7656" | "7657" | "7658" | "7659" |
| ## | [7660] | "7660" | "7661" | "7662" | "7663" | "7664" | "7665" | "7666" | "7667" | "7668" |
| ## | [7669] | "7669" | "7670" | "7671" | "7672" | "7673" | "7674" | "7675" | "7676" | "7677" |
| ## | [7678] | "7678" | "7679" | "7680" | "7681" | "7682" | "7683" | "7684" | "7685" | "7686" |
| ## | [7687] | "7687" | "7688" | "7689" | "7690" | "7691" | "7692" | "7693" | "7694" | "7695" |
| ## | [7696] | "7696" | "7697" | "7698" | "7699" | "7700" | "7701" | "7702" | "7703" | "7704" |
| ## | [7705] | "7705" | "7706" | "7707" | "7708" | "7709" | "7710" | "7711" | "7712" | "7713" |
| ## | [7714] | "7714" | "7715" | "7716" | "7717" | "7718" | "7719" | "7720" | "7721" | "7722" |
| ## | [7723] | "7723" | "7724" | "7725" | "7726" | "7727" | "7728" | "7729" | "7730" | "7731" |
| ## | [7732] | "7732" | "7733" | "7734" | "7735" | "7736" | "7737" | "7738" | "7739" | "7740" |
| ## | [7741] | "7741" | "7742" | "7743" | "7744" | "7745" | "7746" | "7747" | "7748" | "7749" |
| ## | [7750] | "7750" | "7751" | "7752" | "7753" | "7754" | "7755" | "7756" | "7757" | "7758" |
| ## | [7759] | "7759" | "7760" | "7761" | "7762" | "7763" | "7764" | "7765" | "7766" | "7767" |
| ## | [7768] | "7768" | "7769" | "7770" | "7771" | "7772" | "7773" | "7774" | "7775" | "7776" |
| ## | [7777] | "7777" | "7778" | "7779" | "7780" | "7781" | "7782" | "7783" | "7784" | "7785" |
| ## | [7786] | "7786" | "7787" | "7788" | "7789" | "7790" | "7791" | "7792" | "7793" | "7794" |
| ## | [7795] | "7795" | "7796" | "7797" | "7798" | "7799" | "7800" | "7801" | "7802" | "7803" |
| ## | [7804] | "7804" | "7805" | "7806" | "7807" | "7808" | "7809" | "7810" | "7811" | "7812" |
| ## | [7813] | "7813" | "7814" | "7815" | "7816" | "7817" | "7818" | "7819" | "7820" | "7821" |
| ## | [7822] | "7822" | "7823" | "7824" | "7825" | "7826" | "7827" | "7828" | "7829" | "7830" |
| ## | [7831] | "7831" | "7832" | "7833" | "7834" | "7835" | "7836" | "7837" | "7838" | "7839" |
| ## | [7840] | "7840" | "7841" | "7842" | "7843" | "7844" | "7845" | "7846" | "7847" | "7848" |
| ## | [7849] | "7849" | "7850" | "7851" | "7852" | "7853" | "7854" | "7855" | "7856" | "7857" |
| ## | [7858] | "7858" | "7859" | "7860" | "7861" | "7862" | "7863" | "7864" | "7865" | "7866" |
| ## | [7867] | "7867" | "7868" | "7869" | "7870" | "7871" | "7872" | "7873" | "7874" | "7875" |
| ## | [7876] | "7876" | "7877" | "7878" | "7879" | "7880" | "7881" | "7882" | "7883" | "7884" |
| ## | [7885] | "7885" | "7886" | "7887" | "7888" | "7889" | "7890" | "7891" | "7892" | "7893" |
| ## | [7894] | "7894" | "7895" | "7896" | "7897" | "7898" | "7899" | "7900" | "7901" | "7902" |
| ## | [7903] | "7903" | "7904" | "7905" | "7906" | "7907" | "7908" | "7909" | "7910" | "7911" |
| ## | [7912] | "7912" | "7913" | "7914" | "7915" | "7916" | "7917" | "7918" | "7919" | "7920" |
| ## | [7921] | "7921" | "7922" | "7923" | "7924" | "7925" | "7926" | "7927" | "7928" | "7929" |
| ## | [7930] | "7930" | "7931" | "7932" | "7933" | "7934" | "7935" | "7936" | "7937" | "7938" |
| ## | [7939] | "7939" | "7940" | "7941" | "7942" | "7943" | "7944" | "7945" | "7946" | "7947" |
| ## | [7948] | "7948" | "7949" | "7950" | "7951" | "7952" | "7953" | "7954" | "7955" | "7956" |
| ## | [7957] | "7957" | "7958" | "7959" | "7960" | "7961" | "7962" | "7963" | "7964" | "7965" |
| ## | [7966] | "7966" | "7967" | "7968" | "7969" | "7970" | "7971" | "7972" | "7973" | "7974" |
| ## | [7975] | "7975" | "7976" | "7977" | "7978" | "7979" | "7980" | "7981" | "7982" | "7983" |
| ## | [7984] | "7984" | "7985" | "7986" | "7987" | "7988" | "7989" | "7990" | "7991" | "7992" |
| ## | [7993] | "7993" | "7994" | "7995" | "7996" | "7997" | "7998" | "7999" | "8000" | "8001" |
| ## | [8002] | "8002" | "8003" | "8004" | "8005" | "8006" | "8007" | "8008" | "8009" | "8010" |
| ## | [8011] | "8011" | "8012" | "8013" | "8014" | "8015" | "8016" | "8017" | "8018" | "8019" |
| ## | [8020] | "8020" | "8021" | "8022" | "8023" | "8024" | "8025" | "8026" | "8027" | "8028" |
| ## | [8029] | "8029" | "8030" | "8031" | "8032" | "8033" | "8034" | "8035" | "8036" | "8037" |

|    |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [8038] | "8038" | "8039" | "8040" | "8041" | "8042" | "8043" | "8044" | "8045" | "8046" |
| ## | [8047] | "8047" | "8048" | "8049" | "8050" | "8051" | "8052" | "8053" | "8054" | "8055" |
| ## | [8056] | "8056" | "8057" | "8058" | "8059" | "8060" | "8061" | "8062" | "8063" | "8064" |
| ## | [8065] | "8065" | "8066" | "8067" | "8068" | "8069" | "8070" | "8071" | "8072" | "8073" |
| ## | [8074] | "8074" | "8075" | "8076" | "8077" | "8078" | "8079" | "8080" | "8081" | "8082" |
| ## | [8083] | "8083" | "8084" | "8085" | "8086" | "8087" | "8088" | "8089" | "8090" | "8091" |
| ## | [8092] | "8092" | "8093" | "8094" | "8095" | "8096" | "8097" | "8098" | "8099" | "8100" |
| ## | [8101] | "8101" | "8102" | "8103" | "8104" | "8105" | "8106" | "8107" | "8108" | "8109" |
| ## | [8110] | "8110" | "8111" | "8112" | "8113" | "8114" | "8115" | "8116" | "8117" | "8118" |
| ## | [8119] | "8119" | "8120" | "8121" | "8122" | "8123" | "8124" | "8125" | "8126" | "8127" |
| ## | [8128] | "8128" | "8129" | "8130" | "8131" | "8132" | "8133" | "8134" | "8135" | "8136" |
| ## | [8137] | "8137" | "8138" | "8139" | "8140" | "8141" | "8142" | "8143" | "8144" | "8145" |
| ## | [8146] | "8146" | "8147" | "8148" | "8149" | "8150" | "8151" | "8152" | "8153" | "8154" |
| ## | [8155] | "8155" | "8156" | "8157" | "8158" | "8159" | "8160" | "8161" | "8162" | "8163" |
| ## | [8164] | "8164" | "8165" | "8166" | "8167" | "8168" | "8169" | "8170" | "8171" | "8172" |
| ## | [8173] | "8173" | "8174" | "8175" | "8176" | "8177" | "8178" | "8179" | "8180" | "8181" |
| ## | [8182] | "8182" | "8183" | "8184" | "8185" | "8186" | "8187" | "8188" | "8189" | "8190" |
| ## | [8191] | "8191" | "8192" | "8193" | "8194" | "8195" | "8196" | "8197" | "8198" | "8199" |
| ## | [8200] | "8200" | "8201" | "8202" | "8203" | "8204" | "8205" | "8206" | "8207" | "8208" |
| ## | [8209] | "8209" | "8210" | "8211" | "8212" | "8213" | "8214" | "8215" | "8216" | "8217" |
| ## | [8218] | "8218" | "8219" | "8220" | "8221" | "8222" | "8223" | "8224" | "8225" | "8226" |
| ## | [8227] | "8227" | "8228" | "8229" | "8230" | "8231" | "8232" | "8233" | "8234" | "8235" |
| ## | [8236] | "8236" | "8237" | "8238" | "8239" | "8240" | "8241" | "8242" | "8243" | "8244" |
| ## | [8245] | "8245" | "8246" | "8247" | "8248" | "8249" | "8250" | "8251" | "8252" | "8253" |
| ## | [8254] | "8254" | "8255" | "8256" | "8257" | "8258" | "8259" | "8260" | "8261" | "8262" |
| ## | [8263] | "8263" | "8264" | "8265" | "8266" | "8267" | "8268" | "8269" | "8270" | "8271" |
| ## | [8272] | "8272" | "8273" | "8274" | "8275" | "8276" | "8277" | "8278" | "8279" | "8280" |
| ## | [8281] | "8281" | "8282" | "8283" | "8284" | "8285" | "8286" | "8287" | "8288" | "8289" |
| ## | [8290] | "8290" | "8291" | "8292" | "8293" | "8294" | "8295" | "8296" | "8297" | "8298" |
| ## | [8299] | "8299" | "8300" | "8301" | "8302" | "8303" | "8304" | "8305" | "8306" | "8307" |
| ## | [8308] | "8308" | "8309" | "8310" | "8311" | "8312" | "8313" | "8314" | "8315" | "8316" |
| ## | [8317] | "8317" | "8318" | "8319" | "8320" | "8321" | "8322" | "8323" | "8324" | "8325" |
| ## | [8326] | "8326" | "8327" | "8328" | "8329" | "8330" | "8331" | "8332" | "8333" | "8334" |
| ## | [8335] | "8335" | "8336" | "8337" | "8338" | "8339" | "8340" | "8341" | "8342" | "8343" |
| ## | [8344] | "8344" | "8345" | "8346" | "8347" | "8348" | "8349" | "8350" | "8351" | "8352" |
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| ## | [8362] | "8362" | "8363" | "8364" | "8365" | "8366" | "8367" | "8368" | "8369" | "8370" |
| ## | [8371] | "8371" | "8372" | "8373" | "8374" | "8375" | "8376" | "8377" | "8378" | "8379" |
| ## | [8380] | "8380" | "8381" | "8382" | "8383" | "8384" | "8385" | "8386" | "8387" | "8388" |
| ## | [8389] | "8389" | "8390" | "8391" | "8392" | "8393" | "8394" | "8395" | "8396" | "8397" |
| ## | [8398] | "8398" | "8399" | "8400" | "8401" | "8402" | "8403" | "8404" | "8405" | "8406" |
| ## | [8407] | "8407" | "8408" | "8409" | "8410" | "8411" | "8412" | "8413" | "8414" | "8415" |
| ## | [8416] | "8416" | "8417" | "8418" | "8419" | "8420" | "8421" | "8422" | "8423" | "8424" |
| ## | [8425] | "8425" | "8426" | "8427" | "8428" | "8429" | "8430" | "8431" | "8432" | "8433" |
| ## | [8434] | "8434" | "8435" | "8436" | "8437" | "8438" | "8439" | "8440" | "8441" | "8442" |
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| ## | [8452] | "8452" | "8453" | "8454" | "8455" | "8456" | "8457" | "8458" | "8459" | "8460" |
| ## | [8461] | "8461" | "8462" | "8463" | "8464" | "8465" | "8466" | "8467" | "8468" | "8469" |
| ## | [8470] | "8470" | "8471" | "8472" | "8473" | "8474" | "8475" | "8476" | "8477" | "8478" |
| ## | [8479] | "8479" | "8480" | "8481" | "8482" | "8483" | "8484" | "8485" | "8486" | "8487" |
| ## | [8488] | "8488" | "8489" | "8490" | "8491" | "8492" | "8493" | "8494" | "8495" | "8496" |
| ## | [8497] | "8497" | "8498" | "8499" | "8500" | "8501" | "8502" | "8503" | "8504" | "8505" |
| ## | [8506] | "8506" | "8507" | "8508" | "8509" | "8510" | "8511" | "8512" | "8513" | "8514" |
| ## | [8515] | "8515" | "8516" | "8517" | "8518" | "8519" | "8520" | "8521" | "8522" | "8523" |

|    |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [8524] | "8524" | "8525" | "8526" | "8527" | "8528" | "8529" | "8530" | "8531" | "8532" |
| ## | [8533] | "8533" | "8534" | "8535" | "8536" | "8537" | "8538" | "8539" | "8540" | "8541" |
| ## | [8542] | "8542" | "8543" | "8544" | "8545" | "8546" | "8547" | "8548" | "8549" | "8550" |
| ## | [8551] | "8551" | "8552" | "8553" | "8554" | "8555" | "8556" | "8557" | "8558" | "8559" |
| ## | [8560] | "8560" | "8561" | "8562" | "8563" | "8564" | "8565" | "8566" | "8567" | "8568" |
| ## | [8569] | "8569" | "8570" | "8571" | "8572" | "8573" | "8574" | "8575" | "8576" | "8577" |
| ## | [8578] | "8578" | "8579" | "8580" | "8581" | "8582" | "8583" | "8584" | "8585" | "8586" |
| ## | [8587] | "8587" | "8588" | "8589" | "8590" | "8591" | "8592" | "8593" | "8594" | "8595" |
| ## | [8596] | "8596" | "8597" | "8598" | "8599" | "8600" | "8601" | "8602" | "8603" | "8604" |
| ## | [8605] | "8605" | "8606" | "8607" | "8608" | "8609" | "8610" | "8611" | "8612" | "8613" |
| ## | [8614] | "8614" | "8615" | "8616" | "8617" | "8618" | "8619" | "8620" | "8621" | "8622" |
| ## | [8623] | "8623" | "8624" | "8625" | "8626" | "8627" | "8628" | "8629" | "8630" | "8631" |
| ## | [8632] | "8632" | "8633" | "8634" | "8635" | "8636" | "8637" | "8638" | "8639" | "8640" |
| ## | [8641] | "8641" | "8642" | "8643" | "8644" | "8645" | "8646" | "8647" | "8648" | "8649" |
| ## | [8650] | "8650" | "8651" | "8652" | "8653" | "8654" | "8655" | "8656" | "8657" | "8658" |
| ## | [8659] | "8659" | "8660" | "8661" | "8662" | "8663" | "8664" | "8665" | "8666" | "8667" |
| ## | [8668] | "8668" | "8669" | "8670" | "8671" | "8672" | "8673" | "8674" | "8675" | "8676" |
| ## | [8677] | "8677" | "8678" | "8679" | "8680" | "8681" | "8682" | "8683" | "8684" | "8685" |
| ## | [8686] | "8686" | "8687" | "8688" | "8689" | "8690" | "8691" | "8692" | "8693" | "8694" |
| ## | [8695] | "8695" | "8696" | "8697" | "8698" | "8699" | "8700" | "8701" | "8702" | "8703" |
| ## | [8704] | "8704" | "8705" | "8706" | "8707" | "8708" | "8709" | "8710" | "8711" | "8712" |
| ## | [8713] | "8713" | "8714" | "8715" | "8716" | "8717" | "8718" | "8719" | "8720" | "8721" |
| ## | [8722] | "8722" | "8723" | "8724" | "8725" | "8726" | "8727" | "8728" | "8729" | "8730" |
| ## | [8731] | "8731" | "8732" | "8733" | "8734" | "8735" | "8736" | "8737" | "8738" | "8739" |
| ## | [8740] | "8740" | "8741" | "8742" | "8743" | "8744" | "8745" | "8746" | "8747" | "8748" |
| ## | [8749] | "8749" | "8750" | "8751" | "8752" | "8753" | "8754" | "8755" | "8756" | "8757" |
| ## | [8758] | "8758" | "8759" | "8760" | "8761" | "8762" | "8763" | "8764" | "8765" | "8766" |
| ## | [8767] | "8767" | "8768" | "8769" | "8770" | "8771" | "8772" | "8773" | "8774" | "8775" |
| ## | [8776] | "8776" | "8777" | "8778" | "8779" | "8780" | "8781" | "8782" | "8783" | "8784" |
| ## | [8785] | "8785" | "8786" | "8787" | "8788" | "8789" | "8790" | "8791" | "8792" | "8793" |
| ## | [8794] | "8794" | "8795" | "8796" | "8797" | "8798" | "8799" | "8800" | "8801" | "8802" |
| ## | [8803] | "8803" | "8804" | "8805" | "8806" | "8807" | "8808" | "8809" | "8810" | "8811" |
| ## | [8812] | "8812" | "8813" | "8814" | "8815" | "8816" | "8817" | "8818" | "8819" | "8820" |
| ## | [8821] | "8821" | "8822" | "8823" | "8824" | "8825" | "8826" | "8827" | "8828" | "8829" |
| ## | [8830] | "8830" | "8831" | "8832" | "8833" | "8834" | "8835" | "8836" | "8837" | "8838" |
| ## | [8839] | "8839" | "8840" | "8841" | "8842" | "8843" | "8844" | "8845" | "8846" | "8847" |
| ## | [8848] | "8848" | "8849" | "8850" | "8851" | "8852" | "8853" | "8854" | "8855" | "8856" |
| ## | [8857] | "8857" | "8858" | "8859" | "8860" | "8861" | "8862" | "8863" | "8864" | "8865" |
| ## | [8866] | "8866" | "8867" | "8868" | "8869" | "8870" | "8871" | "8872" | "8873" | "8874" |
| ## | [8875] | "8875" | "8876" | "8877" | "8878" | "8879" | "8880" | "8881" | "8882" | "8883" |
| ## | [8884] | "8884" | "8885" | "8886" | "8887" | "8888" | "8889" | "8890" | "8891" | "8892" |
| ## | [8893] | "8893" | "8894" | "8895" | "8896" | "8897" | "8898" | "8899" | "8900" | "8901" |
| ## | [8902] | "8902" | "8903" | "8904" | "8905" | "8906" | "8907" | "8908" | "8909" | "8910" |
| ## | [8911] | "8911" | "8912" | "8913" | "8914" | "8915" | "8916" | "8917" | "8918" | "8919" |
| ## | [8920] | "8920" | "8921" | "8922" | "8923" | "8924" | "8925" | "8926" | "8927" | "8928" |
| ## | [8929] | "8929" | "8930" | "8931" | "8932" | "8933" | "8934" | "8935" | "8936" | "8937" |
| ## | [8938] | "8938" | "8939" | "8940" | "8941" | "8942" | "8943" | "8944" | "8945" | "8946" |
| ## | [8947] | "8947" | "8948" | "8949" | "8950" | "8951" | "8952" | "8953" | "8954" | "8955" |
| ## | [8956] | "8956" | "8957" | "8958" | "8959" | "8960" | "8961" | "8962" | "8963" | "8964" |
| ## | [8965] | "8965" | "8966" | "8967" | "8968" | "8969" | "8970" | "8971" | "8972" | "8973" |
| ## | [8974] | "8974" | "8975" | "8976" | "8977" | "8978" | "8979" | "8980" | "8981" | "8982" |
| ## | [8983] | "8983" | "8984" | "8985" | "8986" | "8987" | "8988" | "8989" | "8990" | "8991" |
| ## | [8992] | "8992" | "8993" | "8994" | "8995" | "8996" | "8997" | "8998" | "8999" | "9000" |
| ## | [9001] | "9001" | "9002" | "9003" | "9004" | "9005" | "9006" | "9007" | "9008" | "9009" |



|    |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [9010] | "9010" | "9011" | "9012" | "9013" | "9014" | "9015" | "9016" | "9017" | "9018" |
| ## | [9019] | "9019" | "9020" | "9021" | "9022" | "9023" | "9024" | "9025" | "9026" | "9027" |
| ## | [9028] | "9028" | "9029" | "9030" | "9031" | "9032" | "9033" | "9034" | "9035" | "9036" |
| ## | [9037] | "9037" | "9038" | "9039" | "9040" | "9041" | "9042" | "9043" | "9044" | "9045" |
| ## | [9046] | "9046" | "9047" | "9048" | "9049" | "9050" | "9051" | "9052" | "9053" | "9054" |
| ## | [9055] | "9055" | "9056" | "9057" | "9058" | "9059" | "9060" | "9061" | "9062" | "9063" |
| ## | [9064] | "9064" | "9065" | "9066" | "9067" | "9068" | "9069" | "9070" | "9071" | "9072" |
| ## | [9073] | "9073" | "9074" | "9075" | "9076" | "9077" | "9078" | "9079" | "9080" | "9081" |
| ## | [9082] | "9082" | "9083" | "9084" | "9085" | "9086" | "9087" | "9088" | "9089" | "9090" |
| ## | [9091] | "9091" | "9092" | "9093" | "9094" | "9095" | "9096" | "9097" | "9098" | "9099" |
| ## | [9100] | "9100" | "9101" | "9102" | "9103" | "9104" | "9105" | "9106" | "9107" | "9108" |
| ## | [9109] | "9109" | "9110" | "9111" | "9112" | "9113" | "9114" | "9115" | "9116" | "9117" |
| ## | [9118] | "9118" | "9119" | "9120" | "9121" | "9122" | "9123" | "9124" | "9125" | "9126" |
| ## | [9127] | "9127" | "9128" | "9129" | "9130" | "9131" | "9132" | "9133" | "9134" | "9135" |
| ## | [9136] | "9136" | "9137" | "9138" | "9139" | "9140" | "9141" | "9142" | "9143" | "9144" |
| ## | [9145] | "9145" | "9146" | "9147" | "9148" | "9149" | "9150" | "9151" | "9152" | "9153" |
| ## | [9154] | "9154" | "9155" | "9156" | "9157" | "9158" | "9159" | "9160" | "9161" | "9162" |
| ## | [9163] | "9163" | "9164" | "9165" | "9166" | "9167" | "9168" | "9169" | "9170" | "9171" |
| ## | [9172] | "9172" | "9173" | "9174" | "9175" | "9176" | "9177" | "9178" | "9179" | "9180" |
| ## | [9181] | "9181" | "9182" | "9183" | "9184" | "9185" | "9186" | "9187" | "9188" | "9189" |
| ## | [9190] | "9190" | "9191" | "9192" | "9193" | "9194" | "9195" | "9196" | "9197" | "9198" |
| ## | [9199] | "9199" | "9200" | "9201" | "9202" | "9203" | "9204" | "9205" | "9206" | "9207" |
| ## | [9208] | "9208" | "9209" | "9210" | "9211" | "9212" | "9213" | "9214" | "9215" | "9216" |
| ## | [9217] | "9217" | "9218" | "9219" | "9220" | "9221" | "9222" | "9223" | "9224" | "9225" |
| ## | [9226] | "9226" | "9227" | "9228" | "9229" | "9230" | "9231" | "9232" | "9233" | "9234" |
| ## | [9235] | "9235" | "9236" | "9237" | "9238" | "9239" | "9240" | "9241" | "9242" | "9243" |
| ## | [9244] | "9244" | "9245" | "9246" | "9247" | "9248" | "9249" | "9250" | "9251" | "9252" |
| ## | [9253] | "9253" | "9254" | "9255" | "9256" | "9257" | "9258" | "9259" | "9260" | "9261" |
| ## | [9262] | "9262" | "9263" | "9264" | "9265" | "9266" | "9267" | "9268" | "9269" | "9270" |
| ## | [9271] | "9271" | "9272" | "9273" | "9274" | "9275" | "9276" | "9277" | "9278" | "9279" |
| ## | [9280] | "9280" | "9281" | "9282" | "9283" | "9284" | "9285" | "9286" | "9287" | "9288" |
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| ## | [9298] | "9298" | "9299" | "9300" | "9301" | "9302" | "9303" | "9304" | "9305" | "9306" |
| ## | [9307] | "9307" | "9308" | "9309" | "9310" | "9311" | "9312" | "9313" | "9314" | "9315" |
| ## | [9316] | "9316" | "9317" | "9318" | "9319" | "9320" | "9321" | "9322" | "9323" | "9324" |
| ## | [9325] | "9325" | "9326" | "9327" | "9328" | "9329" | "9330" | "9331" | "9332" | "9333" |
| ## | [9334] | "9334" | "9335" | "9336" | "9337" | "9338" | "9339" | "9340" | "9341" | "9342" |
| ## | [9343] | "9343" | "9344" | "9345" | "9346" | "9347" | "9348" | "9349" | "9350" | "9351" |
| ## | [9352] | "9352" | "9353" | "9354" | "9355" | "9356" | "9357" | "9358" | "9359" | "9360" |
| ## | [9361] | "9361" | "9362" | "9363" | "9364" | "9365" | "9366" | "9367" | "9368" | "9369" |
| ## | [9370] | "9370" | "9371" | "9372" | "9373" | "9374" | "9375" | "9376" | "9377" | "9378" |
| ## | [9379] | "9379" | "9380" | "9381" | "9382" | "9383" | "9384" | "9385" | "9386" | "9387" |
| ## | [9388] | "9388" | "9389" | "9390" | "9391" | "9392" | "9393" | "9394" | "9395" | "9396" |
| ## | [9397] | "9397" | "9398" | "9399" | "9400" | "9401" | "9402" | "9403" | "9404" | "9405" |
| ## | [9406] | "9406" | "9407" | "9408" | "9409" | "9410" | "9411" | "9412" | "9413" | "9414" |
| ## | [9415] | "9415" | "9416" | "9417" | "9418" | "9419" | "9420" | "9421" | "9422" | "9423" |
| ## | [9424] | "9424" | "9425" | "9426" | "9427" | "9428" | "9429" | "9430" | "9431" | "9432" |
| ## | [9433] | "9433" | "9434" | "9435" | "9436" | "9437" | "9438" | "9439" | "9440" | "9441" |
| ## | [9442] | "9442" | "9443" | "9444" | "9445" | "9446" | "9447" | "9448" | "9449" | "9450" |
| ## | [9451] | "9451" | "9452" | "9453" | "9454" | "9455" | "9456" | "9457" | "9458" | "9459" |
| ## | [9460] | "9460" | "9461" | "9462" | "9463" | "9464" | "9465" | "9466" | "9467" | "9468" |
| ## | [9469] | "9469" | "9470" | "9471" | "9472" | "9473" | "9474" | "9475" | "9476" | "9477" |
| ## | [9478] | "9478" | "9479" | "9480" | "9481" | "9482" | "9483" | "9484" | "9485" | "9486" |
| ## | [9487] | "9487" | "9488" | "9489" | "9490" | "9491" | "9492" | "9493" | "9494" | "9495" |

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|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [9496] | "9496" | "9497" | "9498" | "9499" | "9500" | "9501" | "9502" | "9503" | "9504" |
| ## | [9505] | "9505" | "9506" | "9507" | "9508" | "9509" | "9510" | "9511" | "9512" | "9513" |
| ## | [9514] | "9514" | "9515" | "9516" | "9517" | "9518" | "9519" | "9520" | "9521" | "9522" |
| ## | [9523] | "9523" | "9524" | "9525" | "9526" | "9527" | "9528" | "9529" | "9530" | "9531" |
| ## | [9532] | "9532" | "9533" | "9534" | "9535" | "9536" | "9537" | "9538" | "9539" | "9540" |
| ## | [9541] | "9541" | "9542" | "9543" | "9544" | "9545" | "9546" | "9547" | "9548" | "9549" |
| ## | [9550] | "9550" | "9551" | "9552" | "9553" | "9554" | "9555" | "9556" | "9557" | "9558" |
| ## | [9559] | "9559" | "9560" | "9561" | "9562" | "9563" | "9564" | "9565" | "9566" | "9567" |
| ## | [9568] | "9568" | "9569" | "9570" | "9571" | "9572" | "9573" | "9574" | "9575" | "9576" |
| ## | [9577] | "9577" | "9578" | "9579" | "9580" | "9581" | "9582" | "9583" | "9584" | "9585" |
| ## | [9586] | "9586" | "9587" | "9588" | "9589" | "9590" | "9591" | "9592" | "9593" | "9594" |
| ## | [9595] | "9595" | "9596" | "9597" | "9598" | "9599" | "9600" | "9601" | "9602" | "9603" |
| ## | [9604] | "9604" | "9605" | "9606" | "9607" | "9608" | "9609" | "9610" | "9611" | "9612" |
| ## | [9613] | "9613" | "9614" | "9615" | "9616" | "9617" | "9618" | "9619" | "9620" | "9621" |
| ## | [9622] | "9622" | "9623" | "9624" | "9625" | "9626" | "9627" | "9628" | "9629" | "9630" |
| ## | [9631] | "9631" | "9632" | "9633" | "9634" | "9635" | "9636" | "9637" | "9638" | "9639" |
| ## | [9640] | "9640" | "9641" | "9642" | "9643" | "9644" | "9645" | "9646" | "9647" | "9648" |
| ## | [9649] | "9649" | "9650" | "9651" | "9652" | "9653" | "9654" | "9655" | "9656" | "9657" |
| ## | [9658] | "9658" | "9659" | "9660" | "9661" | "9662" | "9663" | "9664" | "9665" | "9666" |
| ## | [9667] | "9667" | "9668" | "9669" | "9670" | "9671" | "9672" | "9673" | "9674" | "9675" |
| ## | [9676] | "9676" | "9677" | "9678" | "9679" | "9680" | "9681" | "9682" | "9683" | "9684" |
| ## | [9685] | "9685" | "9686" | "9687" | "9688" | "9689" | "9690" | "9691" | "9692" | "9693" |
| ## | [9694] | "9694" | "9695" | "9696" | "9697" | "9698" | "9699" | "9700" | "9701" | "9702" |
| ## | [9703] | "9703" | "9704" | "9705" | "9706" | "9707" | "9708" | "9709" | "9710" | "9711" |
| ## | [9712] | "9712" | "9713" | "9714" | "9715" | "9716" | "9717" | "9718" | "9719" | "9720" |
| ## | [9721] | "9721" | "9722" | "9723" | "9724" | "9725" | "9726" | "9727" | "9728" | "9729" |
| ## | [9730] | "9730" | "9731" | "9732" | "9733" | "9734" | "9735" | "9736" | "9737" | "9738" |
| ## | [9739] | "9739" | "9740" | "9741" | "9742" | "9743" | "9744" | "9745" | "9746" | "9747" |
| ## | [9748] | "9748" | "9749" | "9750" | "9751" | "9752" | "9753" | "9754" | "9755" | "9756" |
| ## | [9757] | "9757" | "9758" | "9759" | "9760" | "9761" | "9762" | "9763" | "9764" | "9765" |
| ## | [9766] | "9766" | "9767" | "9768" | "9769" | "9770" | "9771" | "9772" | "9773" | "9774" |
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| ## | [55630] | "55630" | "55631" | "55632" | "55633" | "55634" | "55635" | "55636" | "55637" | "55638" |
| ## | [55639] | "55639" | "55640" | "55641" | "55642" | "55643" | "55644" | "55645" | "55646" | "55647" |
| ## | [55648] | "55648" | "55649" | "55650" | "55651" | "55652" | "55653" | "55654" | "55655" | "55656" |
| ## | [55657] | "55657" | "55658" | "55659" | "55660" | "55661" | "55662" | "55663" | "55664" | "55665" |



|    |         |         |         |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ## | [55666] | "55666" | "55667" | "55668" | "55669" | "55670" | "55671" | "55672" | "55673" | "55674" |
| ## | [55675] | "55675" | "55676" | "55677" | "55678" | "55679" | "55680" | "55681" | "55682" | "55683" |
| ## | [55684] | "55684" | "55685" | "55686" | "55687" | "55688" | "55689" | "55690" | "55691" | "55692" |
| ## | [55693] | "55693" | "55694" | "55695" | "55696" | "55697" | "55698" | "55699" | "55700" | "55701" |
| ## | [55702] | "55702" | "55703" | "55704" | "55705" | "55706" | "55707" | "55708" | "55709" | "55710" |
| ## | [55711] | "55711" | "55712" | "55713" | "55714" | "55715" | "55716" | "55717" | "55718" | "55719" |
| ## | [55720] | "55720" | "55721" | "55722" | "55723" | "55724" | "55725" | "55726" | "55727" | "55728" |
| ## | [55729] | "55729" | "55730" | "55731" | "55732" | "55733" | "55734" | "55735" | "55736" | "55737" |
| ## | [55738] | "55738" | "55739" | "55740" | "55741" | "55742" | "55743" | "55744" | "55745" | "55746" |
| ## | [55747] | "55747" | "55748" | "55749" | "55750" | "55751" | "55752" | "55753" | "55754" | "55755" |
| ## | [55756] | "55756" | "55757" | "55758" | "55759" | "55760" | "55761" | "55762" | "55763" | "55764" |
| ## | [55765] | "55765" | "55766" | "55767" | "55768" | "55769" | "55770" | "55771" | "55772" | "55773" |
| ## | [55774] | "55774" | "55775" | "55776" | "55777" | "55778" | "55779" | "55780" | "55781" | "55782" |
| ## | [55783] | "55783" | "55784" | "55785" | "55786" | "55787" | "55788" | "55789" | "55790" | "55791" |
| ## | [55792] | "55792" | "55793" | "55794" | "55795" | "55796" | "55797" | "55798" | "55799" | "55800" |
| ## | [55801] | "55801" | "55802" | "55803" | "55804" | "55805" | "55806" | "55807" | "55808" | "55809" |
| ## | [55810] | "55810" | "55811" | "55812" | "55813" | "55814" | "55815" | "55816" | "55817" | "55818" |
| ## | [55819] | "55819" | "55820" | "55821" | "55822" | "55823" | "55824" | "55825" | "55826" | "55827" |
| ## | [55828] | "55828" | "55829" | "55830" | "55831" | "55832" | "55833" | "55834" | "55835" | "55836" |
| ## | [55837] | "55837" | "55838" | "55839" | "55840" | "55841" | "55842" | "55843" | "55844" | "55845" |
| ## | [55846] | "55846" | "55847" | "55848" | "55849" | "55850" | "55851" | "55852" | "55853" | "55854" |
| ## | [55855] | "55855" | "55856" | "55857" | "55858" | "55859" | "55860" | "55861" | "55862" | "55863" |
| ## | [55864] | "55864" | "55865" | "55866" | "55867" | "55868" | "55869" | "55870" | "55871" | "55872" |
| ## | [55873] | "55873" | "55874" | "55875" | "55876" | "55877" | "55878" | "55879" | "55880" | "55881" |
| ## | [55882] | "55882" | "55883" | "55884" | "55885" | "55886" | "55887" | "55888" | "55889" | "55890" |
| ## | [55891] | "55891" | "55892" | "55893" | "55894" | "55895" | "55896" | "55897" | "55898" | "55899" |
| ## | [55900] | "55900" | "55901" | "55902" | "55903" | "55904" | "55905" | "55906" | "55907" | "55908" |
| ## | [55909] | "55909" | "55910" | "55911" | "55912" | "55913" | "55914" | "55915" | "55916" | "55917" |
| ## | [55918] | "55918" | "55919" | "55920" | "55921" | "55922" | "55923" | "55924" | "55925" | "55926" |
| ## | [55927] | "55927" | "55928" | "55929" | "55930" | "55931" | "55932" | "55933" | "55934" | "55935" |
| ## | [55936] | "55936" | "55937" | "55938" | "55939" | "55940" | "55941" | "55942" | "55943" | "55944" |
| ## | [55945] | "55945" | "55946" | "55947" | "55948" | "55949" | "55950" | "55951" | "55952" | "55953" |
| ## | [55954] | "55954" | "55955" | "55956" | "55957" | "55958" | "55959" | "55960" | "55961" | "55962" |
| ## | [55963] | "55963" | "55964" | "55965" | "55966" | "55967" | "55968" | "55969" | "55970" | "55971" |
| ## | [55972] | "55972" | "55973" | "55974" | "55975" | "55976" | "55977" | "55978" | "55979" | "55980" |
| ## | [55981] | "55981" | "55982" | "55983" | "55984" | "55985" | "55986" | "55987" | "55988" | "55989" |
| ## | [55990] | "55990" | "55991" | "55992" | "55993" | "55994" | "55995" | "55996" | "55997" | "55998" |
| ## | [55999] | "55999" | "56000" | "56001" | "56002" | "56003" | "56004" | "56005" | "56006" | "56007" |
| ## | [56008] | "56008" | "56009" | "56010" | "56011" | "56012" | "56013" | "56014" | "56015" | "56016" |
| ## | [56017] | "56017" | "56018" | "56019" | "56020" | "56021" | "56022" | "56023" | "56024" | "56025" |
| ## | [56026] | "56026" | "56027" | "56028" | "56029" | "56030" | "56031" | "56032" | "56033" | "56034" |
| ## | [56035] | "56035" | "56036" | "56037" | "56038" | "56039" | "56040" | "56041" | "56042" | "56043" |
| ## | [56044] | "56044" | "56045" | "56046" | "56047" | "56048" | "56049" | "56050" | "56051" | "56052" |
| ## | [56053] | "56053" | "56054" | "56055" | "56056" | "56057" | "56058" | "56059" | "56060" | "56061" |
| ## | [56062] | "56062" | "56063" | "56064" | "56065" | "56066" | "56067" | "56068" | "56069" | "56070" |
| ## | [56071] | "56071" | "56072" | "56073" | "56074" | "56075" | "56076" | "56077" | "56078" | "56079" |
| ## | [56080] | "56080" | "56081" | "56082" | "56083" | "56084" | "56085" | "56086" | "56087" | "56088" |
| ## | [56089] | "56089" | "56090" | "56091" | "56092" | "56093" | "56094" | "56095" | "56096" | "56097" |
| ## | [56098] | "56098" | "56099" | "56100" | "56101" | "56102" | "56103" | "56104" | "56105" | "56106" |
| ## | [56107] | "56107" | "56108" | "56109" | "56110" | "56111" | "56112" | "56113" | "56114" | "56115" |
| ## | [56116] | "56116" | "56117" | "56118" | "56119" | "56120" | "56121" | "56122" | "56123" | "56124" |
| ## | [56125] | "56125" | "56126" | "56127" | "56128" | "56129" | "56130" | "56131" | "56132" | "56133" |
| ## | [56134] | "56134" | "56135" | "56136" | "56137" | "56138" | "56139" | "56140" | "56141" | "56142" |
| ## | [56143] | "56143" | "56144" | "56145" | "56146" | "56147" | "56148" | "56149" | "56150" | "56151" |

|    |         |         |         |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ## | [56152] | "56152" | "56153" | "56154" | "56155" | "56156" | "56157" | "56158" | "56159" | "56160" |
| ## | [56161] | "56161" | "56162" | "56163" | "56164" | "56165" | "56166" | "56167" | "56168" | "56169" |
| ## | [56170] | "56170" | "56171" | "56172" | "56173" | "56174" | "56175" | "56176" | "56177" | "56178" |
| ## | [56179] | "56179" | "56180" | "56181" | "56182" | "56183" | "56184" | "56185" | "56186" | "56187" |
| ## | [56188] | "56188" | "56189" | "56190" | "56191" | "56192" | "56193" | "56194" | "56195" | "56196" |
| ## | [56197] | "56197" | "56198" | "56199" | "56200" | "56201" | "56202" | "56203" | "56204" | "56205" |
| ## | [56206] | "56206" | "56207" | "56208" | "56209" | "56210" | "56211" | "56212" | "56213" | "56214" |
| ## | [56215] | "56215" | "56216" | "56217" | "56218" | "56219" | "56220" | "56221" | "56222" | "56223" |
| ## | [56224] | "56224" | "56225" | "56226" | "56227" | "56228" | "56229" | "56230" | "56231" | "56232" |
| ## | [56233] | "56233" | "56234" | "56235" | "56236" | "56237" | "56238" | "56239" | "56240" | "56241" |
| ## | [56242] | "56242" | "56243" | "56244" | "56245" | "56246" | "56247" | "56248" | "56249" | "56250" |
| ## | [56251] | "56251" | "56252" | "56253" | "56254" | "56255" | "56256" | "56257" | "56258" | "56259" |
| ## | [56260] | "56260" | "56261" | "56262" | "56263" | "56264" | "56265" | "56266" | "56267" | "56268" |
| ## | [56269] | "56269" | "56270" | "56271" | "56272" | "56273" | "56274" | "56275" | "56276" | "56277" |
| ## | [56278] | "56278" | "56279" | "56280" | "56281" | "56282" | "56283" | "56284" | "56285" | "56286" |
| ## | [56287] | "56287" | "56288" | "56289" | "56290" | "56291" | "56292" | "56293" | "56294" | "56295" |
| ## | [56296] | "56296" | "56297" | "56298" | "56299" | "56300" | "56301" | "56302" | "56303" | "56304" |
| ## | [56305] | "56305" | "56306" | "56307" | "56308" | "56309" | "56310" | "56311" | "56312" | "56313" |
| ## | [56314] | "56314" | "56315" | "56316" | "56317" | "56318" | "56319" | "56320" | "56321" | "56322" |
| ## | [56323] | "56323" | "56324" | "56325" | "56326" | "56327" | "56328" | "56329" | "56330" | "56331" |
| ## | [56332] | "56332" | "56333" | "56334" | "56335" | "56336" | "56337" | "56338" | "56339" | "56340" |
| ## | [56341] | "56341" | "56342" | "56343" | "56344" | "56345" | "56346" | "56347" | "56348" | "56349" |
| ## | [56350] | "56350" | "56351" | "56352" | "56353" | "56354" | "56355" | "56356" | "56357" | "56358" |
| ## | [56359] | "56359" | "56360" | "56361" | "56362" | "56363" | "56364" | "56365" | "56366" | "56367" |
| ## | [56368] | "56368" | "56369" | "56370" | "56371" | "56372" | "56373" | "56374" | "56375" | "56376" |
| ## | [56377] | "56377" | "56378" | "56379" | "56380" | "56381" | "56382" | "56383" | "56384" | "56385" |
| ## | [56386] | "56386" | "56387" | "56388" | "56389" | "56390" | "56391" | "56392" | "56393" | "56394" |
| ## | [56395] | "56395" | "56396" | "56397" | "56398" | "56399" | "56400" | "56401" | "56402" | "56403" |
| ## | [56404] | "56404" | "56405" | "56406" | "56407" | "56408" | "56409" | "56410" | "56411" | "56412" |
| ## | [56413] | "56413" | "56414" | "56415" | "56416" | "56417" | "56418" | "56419" | "56420" | "56421" |
| ## | [56422] | "56422" | "56423" | "56424" | "56425" | "56426" | "56427" | "56428" | "56429" | "56430" |
| ## | [56431] | "56431" | "56432" | "56433" | "56434" | "56435" | "56436" | "56437" | "56438" | "56439" |
| ## | [56440] | "56440" | "56441" | "56442" | "56443" | "56444" | "56445" | "56446" | "56447" | "56448" |
| ## | [56449] | "56449" | "56450" | "56451" | "56452" | "56453" | "56454" | "56455" | "56456" | "56457" |
| ## | [56458] | "56458" | "56459" | "56460" | "56461" | "56462" | "56463" | "56464" | "56465" | "56466" |
| ## | [56467] | "56467" | "56468" | "56469" | "56470" | "56471" | "56472" | "56473" | "56474" | "56475" |
| ## | [56476] | "56476" | "56477" | "56478" | "56479" | "56480" | "56481" | "56482" | "56483" | "56484" |
| ## | [56485] | "56485" | "56486" | "56487" | "56488" | "56489" | "56490" | "56491" | "56492" | "56493" |
| ## | [56494] | "56494" | "56495" | "56496" | "56497" | "56498" | "56499" | "56500" | "56501" | "56502" |
| ## | [56503] | "56503" | "56504" | "56505" | "56506" | "56507" | "56508" | "56509" | "56510" | "56511" |
| ## | [56512] | "56512" | "56513" | "56514" | "56515" | "56516" | "56517" | "56518" | "56519" | "56520" |
| ## | [56521] | "56521" | "56522" | "56523" | "56524" | "56525" | "56526" | "56527" | "56528" | "56529" |
| ## | [56530] | "56530" | "56531" | "56532" | "56533" | "56534" | "56535" | "56536" | "56537" | "56538" |
| ## | [56539] | "56539" | "56540" | "56541" | "56542" | "56543" | "56544" | "56545" | "56546" | "56547" |
| ## | [56548] | "56548" | "56549" | "56550" | "56551" | "56552" | "56553" | "56554" | "56555" | "56556" |
| ## | [56557] | "56557" | "56558" | "56559" | "56560" | "56561" | "56562" | "56563" | "56564" | "56565" |
| ## | [56566] | "56566" | "56567" | "56568" | "56569" | "56570" | "56571" | "56572" | "56573" | "56574" |
| ## | [56575] | "56575" | "56576" | "56577" | "56578" | "56579" | "56580" | "56581" | "56582" | "56583" |
| ## | [56584] | "56584" | "56585" | "56586" | "56587" | "56588" | "56589" | "56590" | "56591" | "56592" |
| ## | [56593] | "56593" | "56594" | "56595" | "56596" | "56597" | "56598" | "56599" | "56600" | "56601" |
| ## | [56602] | "56602" | "56603" | "56604" | "56605" | "56606" | "56607" | "56608" | "56609" | "56610" |
| ## | [56611] | "56611" | "56612" | "56613" | "56614" | "56615" | "56616" | "56617" | "56618" | "56619" |
| ## | [56620] | "56620" | "56621" | "56622" | "56623" | "56624" | "56625" | "56626" | "56627" | "56628" |
| ## | [56629] | "56629" | "56630" | "56631" | "56632" | "56633" | "56634" | "56635" | "56636" | "56637" |

|    |         |         |         |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ## | [56638] | "56638" | "56639" | "56640" | "56641" | "56642" | "56643" | "56644" | "56645" | "56646" |
| ## | [56647] | "56647" | "56648" | "56649" | "56650" | "56651" | "56652" | "56653" | "56654" | "56655" |
| ## | [56656] | "56656" | "56657" | "56658" | "56659" | "56660" | "56661" | "56662" | "56663" | "56664" |
| ## | [56665] | "56665" | "56666" | "56667" | "56668" | "56669" | "56670" | "56671" | "56672" | "56673" |
| ## | [56674] | "56674" | "56675" | "56676" | "56677" | "56678" | "56679" | "56680" | "56681" | "56682" |
| ## | [56683] | "56683" | "56684" | "56685" | "56686" | "56687" | "56688" | "56689" | "56690" | "56691" |
| ## | [56692] | "56692" | "56693" | "56694" | "56695" | "56696" | "56697" | "56698" | "56699" | "56700" |
| ## | [56701] | "56701" | "56702" | "56703" | "56704" | "56705" | "56706" | "56707" | "56708" | "56709" |
| ## | [56710] | "56710" | "56711" | "56712" | "56713" | "56714" | "56715" | "56716" | "56717" | "56718" |
| ## | [56719] | "56719" | "56720" | "56721" | "56722" | "56723" | "56724" | "56725" | "56726" | "56727" |
| ## | [56728] | "56728" | "56729" | "56730" | "56731" | "56732" | "56733" | "56734" | "56735" | "56736" |
| ## | [56737] | "56737" | "56738" | "56739" | "56740" | "56741" | "56742" | "56743" | "56744" | "56745" |
| ## | [56746] | "56746" | "56747" | "56748" | "56749" | "56750" | "56751" | "56752" | "56753" | "56754" |
| ## | [56755] | "56755" | "56756" | "56757" | "56758" | "56759" | "56760" | "56761" | "56762" | "56763" |
| ## | [56764] | "56764" | "56765" | "56766" | "56767" | "56768" | "56769" | "56770" | "56771" | "56772" |
| ## | [56773] | "56773" | "56774" | "56775" | "56776" | "56777" | "56778" | "56779" | "56780" | "56781" |
| ## | [56782] | "56782" | "56783" | "56784" | "56785" | "56786" | "56787" | "56788" | "56789" | "56790" |
| ## | [56791] | "56791" | "56792" | "56793" | "56794" | "56795" | "56796" | "56797" | "56798" | "56799" |
| ## | [56800] | "56800" | "56801" | "56802" | "56803" | "56804" | "56805" | "56806" | "56807" | "56808" |
| ## | [56809] | "56809" | "56810" | "56811" | "56812" | "56813" | "56814" | "56815" | "56816" | "56817" |
| ## | [56818] | "56818" | "56819" | "56820" | "56821" | "56822" | "56823" | "56824" | "56825" | "56826" |
| ## | [56827] | "56827" | "56828" | "56829" | "56830" | "56831" | "56832" | "56833" | "56834" | "56835" |
| ## | [56836] | "56836" | "56837" | "56838" | "56839" | "56840" | "56841" | "56842" | "56843" | "56844" |
| ## | [56845] | "56845" | "56846" | "56847" | "56848" | "56849" | "56850" | "56851" | "56852" | "56853" |
| ## | [56854] | "56854" | "56855" | "56856" | "56857" | "56858" | "56859" | "56860" | "56861" | "56862" |
| ## | [56863] | "56863" | "56864" | "56865" | "56866" | "56867" | "56868" | "56869" | "56870" | "56871" |
| ## | [56872] | "56872" | "56873" | "56874" | "56875" | "56876" | "56877" | "56878" | "56879" | "56880" |
| ## | [56881] | "56881" | "56882" | "56883" | "56884" | "56885" | "56886" | "56887" | "56888" | "56889" |
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```

```
colnames(rna_genes)
```

```
## [1] "gene_id"
```

Oh no! These row names don't look very informative. We know that the rows in `rna_genes` symbolize genes, so what should we change `rownames()` to? Which is better, `gene_name` or `gene_id`?

```
rownames(rna_genes) <- rna_genes$gene_id
```

---

Now that `rna_genes` has informative row/column names, let's move on to `rna_counts`. Call `rownames()` and `colnames()` on `rna_counts`.

```
rownames(rna_counts)
```

```
##      [1] "ENSG00000000003.15"      "ENSG00000000005.6"
##      [3] "ENSG000000000419.13"     "ENSG000000000457.14"
##      [5] "ENSG000000000460.17"     "ENSG000000000938.13"
##      [7] "ENSG000000000971.16"     "ENSG000000001036.14"
##      [9] "ENSG000000001084.13"     "ENSG000000001167.14"
##     [11] "ENSG000000001460.18"     "ENSG000000001461.17"
##     [13] "ENSG000000001497.18"     "ENSG000000001561.7"
##     [15] "ENSG000000001617.12"     "ENSG000000001626.16"
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##     [19] "ENSG000000001631.16"     "ENSG000000002016.18"
##     [21] "ENSG000000002079.14"     "ENSG000000002330.14"
##     [23] "ENSG000000002549.12"     "ENSG000000002586.20"
##     [25] "ENSG000000002586.20_PAR_Y" "ENSG000000002587.10"
##     [27] "ENSG000000002726.21"     "ENSG000000002745.13"
##     [29] "ENSG000000002746.15"     "ENSG000000002822.15"
##     [31] "ENSG000000002834.18"     "ENSG000000002919.15"
##     [33] "ENSG000000002933.9"      "ENSG000000003056.8"
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##     [37] "ENSG000000003147.19"     "ENSG000000003249.15"
##     [39] "ENSG000000003393.15"     "ENSG000000003400.15"
##     [41] "ENSG000000003402.20"     "ENSG000000003436.16"
##     [43] "ENSG000000003509.16"     "ENSG000000003756.17"
##     [45] "ENSG000000003987.14"     "ENSG000000003989.18"
##     [47] "ENSG000000004059.11"     "ENSG000000004139.14"
##     [49] "ENSG000000004142.12"     "ENSG000000004399.13"
```

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| ## | [59]  | "ENSG00000004776.13" | "ENSG00000004777.18" |
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| ## | [65]  | "ENSG00000004846.16" | "ENSG00000004848.8"  |
| ## | [67]  | "ENSG00000004864.14" | "ENSG00000004866.22" |
| ## | [69]  | "ENSG00000004897.12" | "ENSG00000004939.15" |
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| ## | [73]  | "ENSG00000004975.12" | "ENSG00000005001.10" |
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| ## | [95]  | "ENSG00000005379.17" | "ENSG00000005381.8"  |
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| ## | [1793] | "ENSG00000088836.14" | "ENSG00000088854.12" |
| ## | [1795] | "ENSG00000088876.13" | "ENSG00000088881.21" |
| ## | [1797] | "ENSG00000088882.8"  | "ENSG00000088888.18" |
| ## | [1799] | "ENSG00000088899.15" | "ENSG00000088926.14" |
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| ## | [1803] | "ENSG00000088986.11" | "ENSG00000088992.18" |
| ## | [1805] | "ENSG00000089006.17" | "ENSG00000089009.15" |
| ## | [1807] | "ENSG00000089012.14" | "ENSG00000089022.14" |
| ## | [1809] | "ENSG00000089041.17" | "ENSG00000089048.14" |
| ## | [1811] | "ENSG00000089050.16" | "ENSG00000089053.13" |
| ## | [1813] | "ENSG00000089057.15" | "ENSG00000089060.11" |
| ## | [1815] | "ENSG00000089063.15" | "ENSG00000089091.16" |
| ## | [1817] | "ENSG00000089094.19" | "ENSG00000089101.19" |
| ## | [1819] | "ENSG00000089116.4"  | "ENSG00000089123.16" |
| ## | [1821] | "ENSG00000089127.14" | "ENSG00000089154.11" |
| ## | [1823] | "ENSG00000089157.16" | "ENSG00000089159.16" |
| ## | [1825] | "ENSG00000089163.4"  | "ENSG00000089169.15" |
| ## | [1827] | "ENSG00000089177.19" | "ENSG00000089195.15" |
| ## | [1829] | "ENSG00000089199.10" | "ENSG00000089220.5"  |
| ## | [1831] | "ENSG00000089225.20" | "ENSG00000089234.16" |
| ## | [1833] | "ENSG00000089248.7"  | "ENSG00000089250.19" |
| ## | [1835] | "ENSG00000089280.19" | "ENSG00000089289.16" |
| ## | [1837] | "ENSG00000089327.15" | "ENSG00000089335.21" |
| ## | [1839] | "ENSG00000089351.14" | "ENSG00000089356.18" |
| ## | [1841] | "ENSG00000089472.16" | "ENSG00000089486.17" |
| ## | [1843] | "ENSG00000089505.18" | "ENSG00000089558.9"  |
| ## | [1845] | "ENSG00000089597.18" | "ENSG00000089639.11" |
| ## | [1847] | "ENSG00000089682.16" | "ENSG00000089685.15" |
| ## | [1849] | "ENSG00000089692.9"  | "ENSG00000089693.11" |
| ## | [1851] | "ENSG00000089723.10" | "ENSG00000089737.17" |
| ## | [1853] | "ENSG00000089775.12" | "ENSG00000089818.18" |
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| ## | [1859] | "ENSG00000089916.18" | "ENSG00000090006.18" |
| ## | [1861] | "ENSG00000090013.11" | "ENSG00000090020.11" |
| ## | [1863] | "ENSG00000090054.15" | "ENSG00000090060.18" |
| ## | [1865] | "ENSG00000090061.17" | "ENSG00000090097.22" |
| ## | [1867] | "ENSG00000090104.12" | "ENSG00000090238.12" |
| ## | [1869] | "ENSG00000090263.16" | "ENSG00000090266.13" |
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| ## | [1873] | "ENSG00000090339.9"  | "ENSG00000090372.15" |
| ## | [1875] | "ENSG00000090376.11" | "ENSG00000090382.7"  |
| ## | [1877] | "ENSG00000090402.8"  | "ENSG00000090432.7"  |
| ## | [1879] | "ENSG00000090447.12" | "ENSG00000090470.15" |
| ## | [1881] | "ENSG00000090487.11" | "ENSG00000090512.12" |
| ## | [1883] | "ENSG00000090520.11" | "ENSG00000090530.10" |
| ## | [1885] | "ENSG00000090534.20" | "ENSG00000090539.15" |

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| ## | [1887] | "ENSG00000090554.13" | "ENSG00000090565.17" |
| ## | [1889] | "ENSG00000090581.10" | "ENSG00000090612.22" |
| ## | [1891] | "ENSG00000090615.15" | "ENSG00000090621.15" |
| ## | [1893] | "ENSG00000090659.18" | "ENSG00000090661.12" |
| ## | [1895] | "ENSG00000090674.16" | "ENSG00000090686.16" |
| ## | [1897] | "ENSG00000090776.6"  | "ENSG00000090857.14" |
| ## | [1899] | "ENSG00000090861.17" | "ENSG00000090863.12" |
| ## | [1901] | "ENSG00000090889.12" | "ENSG00000090905.19" |
| ## | [1903] | "ENSG00000090924.15" | "ENSG00000090932.11" |
| ## | [1905] | "ENSG00000090971.5"  | "ENSG00000090975.13" |
| ## | [1907] | "ENSG00000090989.18" | "ENSG00000091009.8"  |
| ## | [1909] | "ENSG00000091010.6"  | "ENSG00000091039.17" |
| ## | [1911] | "ENSG00000091073.19" | "ENSG00000091106.19" |
| ## | [1913] | "ENSG00000091127.14" | "ENSG00000091128.13" |
| ## | [1915] | "ENSG00000091129.21" | "ENSG00000091136.15" |
| ## | [1917] | "ENSG00000091137.14" | "ENSG00000091138.13" |
| ## | [1919] | "ENSG00000091140.14" | "ENSG00000091157.14" |
| ## | [1921] | "ENSG00000091164.13" | "ENSG00000091181.20" |
| ## | [1923] | "ENSG00000091262.16" | "ENSG00000091317.8"  |
| ## | [1925] | "ENSG00000091409.15" | "ENSG00000091428.18" |
| ## | [1927] | "ENSG00000091436.17" | "ENSG00000091482.8"  |
| ## | [1929] | "ENSG00000091483.7"  | "ENSG00000091490.11" |
| ## | [1931] | "ENSG00000091513.16" | "ENSG00000091527.16" |
| ## | [1933] | "ENSG00000091536.19" | "ENSG00000091542.9"  |
| ## | [1935] | "ENSG00000091583.11" | "ENSG00000091592.16" |
| ## | [1937] | "ENSG00000091622.16" | "ENSG00000091640.8"  |
| ## | [1939] | "ENSG00000091651.9"  | "ENSG00000091656.19" |
| ## | [1941] | "ENSG00000091664.9"  | "ENSG00000091704.10" |
| ## | [1943] | "ENSG00000091732.17" | "ENSG00000091831.24" |
| ## | [1945] | "ENSG00000091844.8"  | "ENSG00000091879.14" |
| ## | [1947] | "ENSG00000091947.10" | "ENSG00000091972.18" |
| ## | [1949] | "ENSG00000091986.16" | "ENSG00000092009.10" |
| ## | [1951] | "ENSG00000092010.15" | "ENSG00000092020.10" |
| ## | [1953] | "ENSG00000092036.18" | "ENSG00000092051.17" |
| ## | [1955] | "ENSG00000092054.13" | "ENSG00000092067.6"  |
| ## | [1957] | "ENSG00000092068.20" | "ENSG00000092094.11" |
| ## | [1959] | "ENSG00000092096.18" | "ENSG00000092098.17" |
| ## | [1961] | "ENSG00000092108.22" | "ENSG00000092140.16" |
| ## | [1963] | "ENSG00000092148.13" | "ENSG00000092199.18" |
| ## | [1965] | "ENSG00000092200.12" | "ENSG00000092201.10" |
| ## | [1967] | "ENSG00000092203.15" | "ENSG00000092208.17" |
| ## | [1969] | "ENSG00000092295.12" | "ENSG00000092330.18" |
| ## | [1971] | "ENSG00000092345.14" | "ENSG00000092377.15" |
| ## | [1973] | "ENSG00000092421.17" | "ENSG00000092439.16" |
| ## | [1975] | "ENSG00000092445.12" | "ENSG00000092470.12" |
| ## | [1977] | "ENSG00000092529.25" | "ENSG00000092531.10" |
| ## | [1979] | "ENSG00000092607.15" | "ENSG00000092621.13" |
| ## | [1981] | "ENSG00000092758.18" | "ENSG00000092820.18" |
| ## | [1983] | "ENSG00000092841.19" | "ENSG00000092847.13" |
| ## | [1985] | "ENSG00000092850.12" | "ENSG00000092853.14" |
| ## | [1987] | "ENSG00000092871.17" | "ENSG00000092929.12" |
| ## | [1989] | "ENSG00000092931.11" | "ENSG00000092964.18" |
| ## | [1991] | "ENSG00000092969.12" | "ENSG00000092978.11" |
| ## | [1993] | "ENSG00000093000.19" | "ENSG00000093009.11" |

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| ## | [1995] | "ENSG00000093010.15" | "ENSG00000093072.18" |
| ## | [1997] | "ENSG00000093100.13" | "ENSG00000093134.15" |
| ## | [1999] | "ENSG00000093144.19" | "ENSG00000093167.18" |
| ## | [2001] | "ENSG00000093183.14" | "ENSG00000093217.11" |
| ## | [2003] | "ENSG00000094631.21" | "ENSG00000094661.3"  |
| ## | [2005] | "ENSG00000094755.17" | "ENSG00000094796.5"  |
| ## | [2007] | "ENSG00000094804.12" | "ENSG00000094841.14" |
| ## | [2009] | "ENSG00000094880.11" | "ENSG00000094914.14" |
| ## | [2011] | "ENSG00000094916.16" | "ENSG00000094963.14" |
| ## | [2013] | "ENSG00000094975.14" | "ENSG00000095002.15" |
| ## | [2015] | "ENSG00000095015.6"  | "ENSG00000095059.16" |
| ## | [2017] | "ENSG00000095066.12" | "ENSG00000095110.8"  |
| ## | [2019] | "ENSG00000095139.14" | "ENSG00000095203.14" |
| ## | [2021] | "ENSG00000095209.12" | "ENSG00000095261.14" |
| ## | [2023] | "ENSG00000095303.17" | "ENSG00000095319.14" |
| ## | [2025] | "ENSG00000095321.17" | "ENSG00000095370.20" |
| ## | [2027] | "ENSG00000095380.11" | "ENSG00000095383.20" |
| ## | [2029] | "ENSG00000095397.16" | "ENSG00000095464.10" |
| ## | [2031] | "ENSG00000095485.18" | "ENSG00000095539.15" |
| ## | [2033] | "ENSG00000095564.14" | "ENSG00000095574.12" |
| ## | [2035] | "ENSG00000095585.17" | "ENSG00000095587.9"  |
| ## | [2037] | "ENSG00000095596.12" | "ENSG00000095627.9"  |
| ## | [2039] | "ENSG00000095637.22" | "ENSG00000095713.14" |
| ## | [2041] | "ENSG00000095739.11" | "ENSG00000095752.7"  |
| ## | [2043] | "ENSG00000095777.17" | "ENSG00000095787.23" |
| ## | [2045] | "ENSG00000095794.19" | "ENSG00000095906.17" |
| ## | [2047] | "ENSG00000095917.14" | "ENSG00000095932.7"  |
| ## | [2049] | "ENSG00000095951.17" | "ENSG00000095970.17" |
| ## | [2051] | "ENSG00000095981.11" | "ENSG00000096006.12" |
| ## | [2053] | "ENSG00000096060.15" | "ENSG00000096063.16" |
| ## | [2055] | "ENSG00000096070.19" | "ENSG00000096080.12" |
| ## | [2057] | "ENSG00000096088.16" | "ENSG00000096092.6"  |
| ## | [2059] | "ENSG00000096093.16" | "ENSG00000096264.14" |
| ## | [2061] | "ENSG00000096384.20" | "ENSG00000096395.11" |
| ## | [2063] | "ENSG00000096401.8"  | "ENSG00000096433.11" |
| ## | [2065] | "ENSG00000096654.15" | "ENSG00000096696.14" |
| ## | [2067] | "ENSG00000096717.12" | "ENSG00000096746.17" |
| ## | [2069] | "ENSG00000096872.17" | "ENSG00000096968.14" |
| ## | [2071] | "ENSG00000096996.16" | "ENSG00000097007.19" |
| ## | [2073] | "ENSG00000097021.20" | "ENSG00000097033.14" |
| ## | [2075] | "ENSG00000097046.13" | "ENSG00000097096.9"  |
| ## | [2077] | "ENSG00000099139.14" | "ENSG00000099194.6"  |
| ## | [2079] | "ENSG00000099203.7"  | "ENSG00000099204.20" |
| ## | [2081] | "ENSG00000099219.14" | "ENSG00000099246.17" |
| ## | [2083] | "ENSG00000099250.18" | "ENSG00000099251.14" |
| ## | [2085] | "ENSG00000099256.19" | "ENSG00000099260.11" |
| ## | [2087] | "ENSG00000099282.10" | "ENSG00000099284.15" |
| ## | [2089] | "ENSG00000099290.17" | "ENSG00000099308.10" |
| ## | [2091] | "ENSG00000099326.9"  | "ENSG00000099330.9"  |
| ## | [2093] | "ENSG00000099331.13" | "ENSG00000099337.5"  |
| ## | [2095] | "ENSG00000099338.23" | "ENSG00000099341.11" |
| ## | [2097] | "ENSG00000099364.18" | "ENSG00000099365.11" |
| ## | [2099] | "ENSG00000099377.14" | "ENSG00000099381.18" |
| ## | [2101] | "ENSG00000099385.12" | "ENSG00000099399.6"  |

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| ## | [2103] | "ENSG00000099617.4"  | "ENSG00000099622.14" |
| ## | [2105] | "ENSG00000099624.8"  | "ENSG00000099625.13" |
| ## | [2107] | "ENSG00000099715.14" | "ENSG00000099721.14" |
| ## | [2109] | "ENSG00000099725.14" | "ENSG00000099769.6"  |
| ## | [2111] | "ENSG00000099783.12" | "ENSG00000099785.10" |
| ## | [2113] | "ENSG00000099795.7"  | "ENSG00000099797.15" |
| ## | [2115] | "ENSG00000099800.8"  | "ENSG00000099804.9"  |
| ## | [2117] | "ENSG00000099810.21" | "ENSG00000099812.9"  |
| ## | [2119] | "ENSG00000099814.16" | "ENSG00000099817.12" |
| ## | [2121] | "ENSG00000099821.14" | "ENSG00000099822.3"  |
| ## | [2123] | "ENSG00000099834.19" | "ENSG00000099840.14" |
| ## | [2125] | "ENSG00000099849.15" | "ENSG00000099860.9"  |
| ## | [2127] | "ENSG00000099864.18" | "ENSG00000099866.15" |
| ## | [2129] | "ENSG00000099869.8"  | "ENSG00000099875.15" |
| ## | [2131] | "ENSG00000099889.14" | "ENSG00000099899.15" |
| ## | [2133] | "ENSG00000099901.17" | "ENSG00000099904.16" |
| ## | [2135] | "ENSG00000099910.17" | "ENSG00000099917.17" |
| ## | [2137] | "ENSG00000099937.11" | "ENSG00000099940.12" |
| ## | [2139] | "ENSG00000099942.13" | "ENSG00000099949.21" |
| ## | [2141] | "ENSG00000099953.10" | "ENSG00000099954.18" |
| ## | [2143] | "ENSG00000099956.20" | "ENSG00000099957.16" |
| ## | [2145] | "ENSG00000099958.15" | "ENSG00000099960.13" |
| ## | [2147] | "ENSG00000099968.18" | "ENSG00000099974.8"  |
| ## | [2149] | "ENSG00000099977.14" | "ENSG00000099984.11" |
| ## | [2151] | "ENSG00000099985.4"  | "ENSG00000099991.18" |
| ## | [2153] | "ENSG00000099992.16" | "ENSG00000099994.11" |
| ## | [2155] | "ENSG00000099995.19" | "ENSG00000099998.18" |
| ## | [2157] | "ENSG00000099999.15" | "ENSG00000100003.18" |
| ## | [2159] | "ENSG00000100012.12" | "ENSG00000100014.20" |
| ## | [2161] | "ENSG00000100023.19" | "ENSG00000100024.15" |
| ## | [2163] | "ENSG00000100027.17" | "ENSG00000100028.12" |
| ## | [2165] | "ENSG00000100029.18" | "ENSG00000100030.15" |
| ## | [2167] | "ENSG00000100031.19" | "ENSG00000100033.16" |
| ## | [2169] | "ENSG00000100034.14" | "ENSG00000100036.13" |
| ## | [2171] | "ENSG00000100038.20" | "ENSG00000100053.10" |
| ## | [2173] | "ENSG00000100055.21" | "ENSG00000100056.12" |
| ## | [2175] | "ENSG00000100058.12" | "ENSG00000100060.18" |
| ## | [2177] | "ENSG00000100065.15" | "ENSG00000100068.13" |
| ## | [2179] | "ENSG00000100075.10" | "ENSG00000100077.15" |
| ## | [2181] | "ENSG00000100078.4"  | "ENSG00000100079.7"  |
| ## | [2183] | "ENSG00000100083.19" | "ENSG00000100084.14" |
| ## | [2185] | "ENSG00000100092.24" | "ENSG00000100095.19" |
| ## | [2187] | "ENSG00000100097.12" | "ENSG00000100099.21" |
| ## | [2189] | "ENSG00000100100.13" | "ENSG00000100101.15" |
| ## | [2191] | "ENSG00000100104.13" | "ENSG00000100105.18" |
| ## | [2193] | "ENSG00000100106.22" | "ENSG00000100109.17" |
| ## | [2195] | "ENSG00000100116.17" | "ENSG00000100121.13" |
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| ## | [2199] | "ENSG00000100129.18" | "ENSG00000100138.15" |
| ## | [2201] | "ENSG00000100139.13" | "ENSG00000100142.16" |
| ## | [2203] | "ENSG00000100146.18" | "ENSG00000100147.14" |
| ## | [2205] | "ENSG00000100150.20" | "ENSG00000100151.16" |
| ## | [2207] | "ENSG00000100154.14" | "ENSG00000100156.10" |
| ## | [2209] | "ENSG00000100162.15" | "ENSG00000100167.20" |

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| ## | [2211] | "ENSG00000100170.10" | "ENSG00000100181.22" |
| ## | [2213] | "ENSG00000100191.6"  | "ENSG00000100196.11" |
| ## | [2215] | "ENSG00000100197.22" | "ENSG00000100201.23" |
| ## | [2217] | "ENSG00000100206.10" | "ENSG00000100207.20" |
| ## | [2219] | "ENSG00000100209.11" | "ENSG00000100211.10" |
| ## | [2221] | "ENSG00000100216.6"  | "ENSG00000100218.12" |
| ## | [2223] | "ENSG00000100219.16" | "ENSG00000100220.12" |
| ## | [2225] | "ENSG00000100221.10" | "ENSG00000100225.18" |
| ## | [2227] | "ENSG00000100226.16" | "ENSG00000100227.18" |
| ## | [2229] | "ENSG00000100228.12" | "ENSG00000100234.12" |
| ## | [2231] | "ENSG00000100239.16" | "ENSG00000100241.21" |
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| ## | [2235] | "ENSG00000100246.13" | "ENSG00000100249.4"  |
| ## | [2237] | "ENSG00000100253.13" | "ENSG00000100258.18" |
| ## | [2239] | "ENSG00000100263.14" | "ENSG00000100266.19" |
| ## | [2241] | "ENSG00000100271.17" | "ENSG00000100276.10" |
| ## | [2243] | "ENSG00000100280.16" | "ENSG00000100281.14" |
| ## | [2245] | "ENSG00000100284.21" | "ENSG00000100285.10" |
| ## | [2247] | "ENSG00000100288.20" | "ENSG00000100290.3"  |
| ## | [2249] | "ENSG00000100292.18" | "ENSG00000100294.13" |
| ## | [2251] | "ENSG00000100296.14" | "ENSG00000100297.16" |
| ## | [2253] | "ENSG00000100298.16" | "ENSG00000100299.18" |
| ## | [2255] | "ENSG00000100300.18" | "ENSG00000100302.7"  |
| ## | [2257] | "ENSG00000100304.13" | "ENSG00000100307.13" |
| ## | [2259] | "ENSG00000100311.17" | "ENSG00000100312.11" |
| ## | [2261] | "ENSG00000100314.4"  | "ENSG00000100316.16" |
| ## | [2263] | "ENSG00000100319.13" | "ENSG00000100320.23" |
| ## | [2265] | "ENSG00000100321.15" | "ENSG00000100324.14" |
| ## | [2267] | "ENSG00000100325.15" | "ENSG00000100330.16" |
| ## | [2269] | "ENSG00000100335.15" | "ENSG00000100336.17" |
| ## | [2271] | "ENSG00000100341.12" | "ENSG00000100342.21" |
| ## | [2273] | "ENSG00000100344.11" | "ENSG00000100345.22" |
| ## | [2275] | "ENSG00000100346.18" | "ENSG00000100347.15" |
| ## | [2277] | "ENSG00000100348.10" | "ENSG00000100350.15" |
| ## | [2279] | "ENSG00000100351.17" | "ENSG00000100353.18" |
| ## | [2281] | "ENSG00000100354.21" | "ENSG00000100359.21" |
| ## | [2283] | "ENSG00000100360.15" | "ENSG00000100362.13" |
| ## | [2285] | "ENSG00000100364.19" | "ENSG00000100365.16" |
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| ## | [2289] | "ENSG00000100373.10" | "ENSG00000100376.12" |
| ## | [2291] | "ENSG00000100379.17" | "ENSG00000100380.14" |
| ## | [2293] | "ENSG00000100385.14" | "ENSG00000100387.9"  |
| ## | [2295] | "ENSG00000100393.14" | "ENSG00000100395.15" |
| ## | [2297] | "ENSG00000100399.16" | "ENSG00000100401.20" |
| ## | [2299] | "ENSG00000100403.12" | "ENSG00000100410.8"  |
| ## | [2301] | "ENSG00000100412.17" | "ENSG00000100413.17" |
| ## | [2303] | "ENSG00000100416.15" | "ENSG00000100417.12" |
| ## | [2305] | "ENSG00000100418.8"  | "ENSG00000100422.14" |
| ## | [2307] | "ENSG00000100425.18" | "ENSG00000100426.7"  |
| ## | [2309] | "ENSG00000100427.16" | "ENSG00000100429.18" |
| ## | [2311] | "ENSG00000100433.16" | "ENSG00000100439.10" |
| ## | [2313] | "ENSG00000100441.10" | "ENSG00000100442.11" |
| ## | [2315] | "ENSG00000100445.17" | "ENSG00000100448.4"  |
| ## | [2317] | "ENSG00000100450.13" | "ENSG00000100453.13" |



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 ## [341] "TCGA-EW-A6S9" "TCGA-BH-A1F6" "TCGA-BH-A0BL" "TCGA-A2-A0EY"  
 ## [345] "TCGA-AN-A0XP" "TCGA-A8-A07R" "TCGA-E9-A54Y" "TCGA-A8-A09C"  
 ## [349] "TCGA-AR-A24H" "TCGA-AR-A24S" "TCGA-A2-A0YT" "TCGA-A8-A093"  
 ## [353] "TCGA-BH-A1ES" "TCGA-BH-A0BV" "TCGA-A8-A0A9" "TCGA-A8-A06X"  
 ## [357] "TCGA-A0-A03L" "TCGA-AN-A0AM" "TCGA-D8-A1XS" "TCGA-AR-A240"  
 ## [361] "TCGA-BH-A42T" "TCGA-BH-A0DX" "TCGA-C8-A137" "TCGA-A2-A3XU"  
 ## [365] "TCGA-OL-A5RW" "TCGA-B6-A0IQ" "TCGA-C8-A1HL" "TCGA-AN-A0XU"  
 ## [369] "TCGA-JL-A3YW" "TCGA-AN-A0AL" "TCGA-BH-A0W4" "TCGA-A8-A07I"  
 ## [373] "TCGA-E9-A247" "TCGA-A8-A07G" "TCGA-A8-A06Q" "TCGA-BH-A280"  
 ## [377] "TCGA-AR-A24Q" "TCGA-B6-A0WV" "TCGA-E2-A1LI" "TCGA-D8-A27R"

## [381] "TCGA-E2-A155" "TCGA-A2-AOCO" "TCGA-AR-A24T" "TCGA-E2-A572"  
 ## [385] "TCGA-B6-A0X5" "TCGA-D8-A1JP" "TCGA-AN-AOFD" "TCGA-BH-AOBS"  
 ## [389] "TCGA-A8-A09T" "TCGA-AR-A2LE" "TCGA-AR-A252" "TCGA-B6-A1KI"  
 ## [393] "TCGA-S3-AA11" "TCGA-A0-A124" "TCGA-OL-A66K" "TCGA-A0-A128"  
 ## [397] "TCGA-A1-A0SH" "TCGA-A7-A6VV" "TCGA-A8-A095" "TCGA-D8-A27G"  
 ## [401] "TCGA-A2-A1G0" "TCGA-BH-A1FB" "TCGA-C8-A138" "TCGA-BH-AOHL"  
 ## [405] "TCGA-C8-A1HN" "TCGA-AC-A3HN" "TCGA-E2-A108" "TCGA-C8-A278"  
 ## [409] "TCGA-AC-A3W7" "TCGA-B6-A0IE" "TCGA-A8-A08I" "TCGA-A7-A6VX"  
 ## [413] "TCGA-D8-A27K" "TCGA-A2-A1FW" "TCGA-C8-A1HK" "TCGA-AC-A6IV"  
 ## [417] "TCGA-C8-A131" "TCGA-E9-A1RI" "TCGA-AC-A62X" "TCGA-AR-A1AL"  
 ## [421] "TCGA-AC-A2BK" "TCGA-A2-A0SY" "TCGA-OL-A97C" "TCGA-AR-AOU4"  
 ## [425] "TCGA-A2-A0EV" "TCGA-A8-A084" "TCGA-A7-AOCE" "TCGA-A2-A04Y"  
 ## [429] "TCGA-D8-A1JA" "TCGA-AC-A3TM" "TCGA-AN-A04C" "TCGA-D8-A27E"  
 ## [433] "TCGA-A8-A060" "TCGA-B6-A0RU" "TCGA-C8-A12K" "TCGA-BH-AOH3"  
 ## [437] "TCGA-HN-A2NL" "TCGA-A2-A0T1" "TCGA-D8-A1JC" "TCGA-AC-A3BB"  
 ## [441] "TCGA-A2-A04W" "TCGA-A2-A0ES" "TCGA-EW-A1P7" "TCGA-E9-A54X"  
 ## [445] "TCGA-AN-A0XT" "TCGA-GM-A2DB" "TCGA-LL-A73Z" "TCGA-C8-A1HJ"  
 ## [449] "TCGA-A2-A0YC" "TCGA-BH-A5IZ" "TCGA-D8-A1JM" "TCGA-BH-A1EY"  
 ## [453] "TCGA-A0-A0JB" "TCGA-AC-A2B8" "TCGA-LL-A7SZ" "TCGA-A8-A09Q"  
 ## [457] "TCGA-A8-A08F" "TCGA-LL-A6FP" "TCGA-A8-A06T" "TCGA-C8-A1HI"  
 ## [461] "TCGA-A7-A0CD" "TCGA-A7-A0DA" "TCGA-A8-A091" "TCGA-B6-A1KC"  
 ## [465] "TCGA-E9-A22G" "TCGA-E9-A1R2" "TCGA-A2-A4RW" "TCGA-A8-A07S"  
 ## [469] "TCGA-3C-AAAU" "TCGA-A8-A06P" "TCGA-A2-A259" "TCGA-B6-A0IP"  
 ## [473] "TCGA-B6-A0IM" "TCGA-GM-A2DF" "TCGA-A2-A25B" "TCGA-AN-AOFZ"  
 ## [477] "TCGA-B6-A0RM" "TCGA-E2-A15T" "TCGA-A2-A3XW" "TCGA-EW-A1J2"  
 ## [481] "TCGA-D8-A1Y3" "TCGA-UL-AAZ6" "TCGA-BH-AOH0" "TCGA-A0-A1KS"  
 ## [485] "TCGA-A2-A0T2" "TCGA-D8-A27I" "TCGA-E9-A1NC" "TCGA-BH-A1F5"  
 ## [489] "TCGA-EW-A6SB" "TCGA-AN-A046" "TCGA-A8-A07U" "TCGA-A8-A09E"  
 ## [493] "TCGA-E2-A1B5" "TCGA-E2-A1IF" "TCGA-D8-A1XA" "TCGA-PL-A8LY"  
 ## [497] "TCGA-B6-A408" "TCGA-AR-A5QM" "TCGA-4H-AAAK" "TCGA-BH-A1F2"  
 ## [501] "TCGA-C8-A12W" "TCGA-GM-A2DI" "TCGA-GM-A2D9" "TCGA-LL-A441"  
 ## [505] "TCGA-BH-A0E6" "TCGA-E2-A1II" "TCGA-LL-A440" "TCGA-AN-AOFS"  
 ## [509] "TCGA-GM-A3XL" "TCGA-BH-A0B7" "TCGA-AC-A62Y" "TCGA-S3-AA12"  
 ## [513] "TCGA-A2-A0YD" "TCGA-E2-A15K" "TCGA-AN-AOXO" "TCGA-E9-A1NG"  
 ## [517] "TCGA-B6-A0WS" "TCGA-EW-A10Y" "TCGA-AN-AOFJ" "TCGA-A2-A3XV"  
 ## [521] "TCGA-3C-AALI" "TCGA-BH-A0B8" "TCGA-BH-A18P" "TCGA-A7-A3J0"  
 ## [525] "TCGA-E2-A15C" "TCGA-A7-A0CJ" "TCGA-BH-A0BJ" "TCGA-BH-AOHU"  
 ## [529] "TCGA-BH-A0DD" "TCGA-OL-A5D8" "TCGA-BH-AODG" "TCGA-D8-A1JF"  
 ## [533] "TCGA-AR-A0TY" "TCGA-GM-A3NW" "TCGA-BH-A0B0" "TCGA-A0-A03T"  
 ## [537] "TCGA-GM-A3NY" "TCGA-E9-A1R7" "TCGA-B6-A1KN" "TCGA-A2-A25E"  
 ## [541] "TCGA-BH-A208" "TCGA-D8-A1JI" "TCGA-E2-A10A" "TCGA-BH-AOWA"  
 ## [545] "TCGA-BH-A0DE" "TCGA-OL-A5S0" "TCGA-WT-AB44" "TCGA-E2-A9RU"  
 ## [549] "TCGA-D8-A13Z" "TCGA-BH-A0B9" "TCGA-EW-A1IW" "TCGA-A8-A07P"  
 ## [553] "TCGA-A7-A13E" "TCGA-A8-A09W" "TCGA-D8-A1JT" "TCGA-AN-AOXL"  
 ## [557] "TCGA-E2-A570" "TCGA-S3-AA0Z" "TCGA-LL-A8F5" "TCGA-E2-A10F"  
 ## [561] "TCGA-BH-A0C7" "TCGA-A7-A3J1" "TCGA-PL-A8LZ" "TCGA-AN-AOFW"  
 ## [565] "TCGA-LL-A6FQ" "TCGA-BH-A0AY" "TCGA-E9-A3X8" "TCGA-B6-AORS"  
 ## [569] "TCGA-B6-A3ZX" "TCGA-A2-A0T0" "TCGA-AR-A1AK" "TCGA-E9-A1RB"  
 ## [573] "TCGA-AC-A5XU" "TCGA-EW-A6SC" "TCGA-OL-A66I" "TCGA-D8-A1XK"  
 ## [577] "TCGA-AQ-A540" "TCGA-A2-A0CU" "TCGA-BH-A0AU" "TCGA-A8-A09N"  
 ## [581] "TCGA-D8-A1XQ" "TCGA-LD-A74U" "TCGA-A0-A1KP" "TCGA-EW-A10X"  
 ## [585] "TCGA-E9-A1RD" "TCGA-EW-A1IY" "TCGA-AR-A254" "TCGA-BH-AOE1"  
 ## [589] "TCGA-GM-A4E0" "TCGA-E2-A14X" "TCGA-E9-A1RH" "TCGA-BH-A1EV"  
 ## [593] "TCGA-E2-A573" "TCGA-A2-A4S3" "TCGA-AR-A2LQ" "TCGA-BH-A1FC"

## [597] "TCGA-A7-A0D9" "TCGA-A2-A04N" "TCGA-D8-A1JK" "TCGA-AR-A250"  
 ## [601] "TCGA-B6-A0RE" "TCGA-B6-A0I5" "TCGA-S3-A6ZG" "TCGA-A2-A0SX"  
 ## [605] "TCGA-B6-A0RL" "TCGA-AC-A80S" "TCGA-BH-A0D0" "TCGA-AC-A5XS"  
 ## [609] "TCGA-EW-A2FS" "TCGA-A8-A097" "TCGA-E2-A14Z" "TCGA-GM-A2DC"  
 ## [613] "TCGA-A0-A03V" "TCGA-BH-A0E9" "TCGA-OL-A66H" "TCGA-A7-A5ZX"  
 ## [617] "TCGA-A8-A09X" "TCGA-A7-A26H" "TCGA-A2-A0CY" "TCGA-BH-A0C3"  
 ## [621] "TCGA-UU-A93S" "TCGA-B6-A0X7" "TCGA-BH-A0GY" "TCGA-E9-A1RC"  
 ## [625] "TCGA-E2-A1LA" "TCGA-E9-A229" "TCGA-BH-A0HI" "TCGA-A2-A0YK"  
 ## [629] "TCGA-BH-A0DH" "TCGA-EW-A10Z" "TCGA-S3-AA14" "TCGA-A0-A0J7"  
 ## [633] "TCGA-LL-A50Y" "TCGA-D8-A1XM" "TCGA-C8-A3M7" "TCGA-AC-A3QQ"  
 ## [637] "TCGA-OL-A66J" "TCGA-AN-A0XS" "TCGA-D8-A73U" "TCGA-AN-A0G0"  
 ## [641] "TCGA-B6-A0IG" "TCGA-AN-A0AJ" "TCGA-AR-A1AU" "TCGA-A2-A0T5"  
 ## [645] "TCGA-A0-A0JE" "TCGA-AR-A2LH" "TCGA-D8-A1Y1" "TCGA-A8-A092"  
 ## [649] "TCGA-AR-A1AY" "TCGA-LD-A66U" "TCGA-A8-A09G" "TCGA-HN-A20B"  
 ## [653] "TCGA-AR-A1A0" "TCGA-A8-A08R" "TCGA-AR-A0TV" "TCGA-A8-A0A4"  
 ## [657] "TCGA-EW-A1P3" "TCGA-E2-A1IE" "TCGA-BH-A0H7" "TCGA-BH-A0E0"  
 ## [661] "TCGA-D8-A1XG" "TCGA-A2-A0T3" "TCGA-E2-A1LL" "TCGA-AC-A7VC"  
 ## [665] "TCGA-A2-A04V" "TCGA-EW-A1P5" "TCGA-A1-A0SQ" "TCGA-C8-A130"  
 ## [669] "TCGA-D8-A13Y" "TCGA-GM-A3XN" "TCGA-D8-A1XT" "TCGA-BH-A0E7"  
 ## [673] "TCGA-E2-A1BC" "TCGA-E9-A22E" "TCGA-E2-A15H" "TCGA-AC-A6N0"  
 ## [677] "TCGA-AR-A1AV" "TCGA-C8-A26Z" "TCGA-A7-A426" "TCGA-B6-A400"  
 ## [681] "TCGA-BH-A18Q" "TCGA-AR-A24R" "TCGA-D8-A27N" "TCGA-AC-A2QJ"  
 ## [685] "TCGA-A8-A096" "TCGA-E2-A1B4" "TCGA-EW-A1J3" "TCGA-E2-A1IK"  
 ## [689] "TCGA-D8-A3Z5" "TCGA-OL-A5RZ" "TCGA-A2-A0YJ" "TCGA-AN-A0FT"  
 ## [693] "TCGA-A2-A4S0" "TCGA-BH-A1EX" "TCGA-C8-A12L" "TCGA-BH-A42V"  
 ## [697] "TCGA-D8-A141" "TCGA-A2-A0EN" "TCGA-E2-A15M" "TCGA-A8-A080"  
 ## [701] "TCGA-E9-A1R3" "TCGA-E2-A56Z" "TCGA-D8-A142" "TCGA-BH-A0DZ"  
 ## [705] "TCGA-B6-A0RV" "TCGA-E9-A1R6" "TCGA-D8-A1Y0" "TCGA-E9-A22D"  
 ## [709] "TCGA-E2-A14T" "TCGA-E2-A1B6" "TCGA-A7-A2KD" "TCGA-MS-A51U"  
 ## [713] "TCGA-E2-A1LS" "TCGA-BH-A0DV" "TCGA-AR-A1AP" "TCGA-C8-A135"  
 ## [717] "TCGA-A2-A0CT" "TCGA-A8-A09D" "TCGA-D8-A1X9" "TCGA-OL-A6V0"  
 ## [721] "TCGA-A0-A0J3" "TCGA-A8-A09M" "TCGA-D8-A27L" "TCGA-D8-A1J8"  
 ## [725] "TCGA-A8-A0A1" "TCGA-BH-A0BR" "TCGA-A2-A0EM" "TCGA-BH-A1ET"  
 ## [729] "TCGA-PE-A5DE" "TCGA-E2-A3DX" "TCGA-BH-A18J" "TCGA-A0-A126"  
 ## [733] "TCGA-LQ-A4E4" "TCGA-A7-A425" "TCGA-D8-A1X8" "TCGA-D8-A73X"  
 ## [737] "TCGA-E9-A1N9" "TCGA-E2-A14P" "TCGA-AR-A5QQ" "TCGA-EW-A1J6"  
 ## [741] "TCGA-BH-A0H5" "TCGA-A2-A1FZ" "TCGA-AC-A23C" "TCGA-A8-A085"  
 ## [745] "TCGA-A2-A0T4" "TCGA-D8-A140" "TCGA-AR-A5QP" "TCGA-A8-A0AD"  
 ## [749] "TCGA-E9-A1NH" "TCGA-AR-A0TP" "TCGA-AC-A2FM" "TCGA-BH-A18M"  
 ## [753] "TCGA-E2-A140" "TCGA-BH-A1FJ" "TCGA-B6-A1KF" "TCGA-A8-A090"  
 ## [757] "TCGA-A0-A0J4" "TCGA-BH-A0HQ" "TCGA-D8-A1JL" "TCGA-LL-A73Y"  
 ## [761] "TCGA-BH-A0HP" "TCGA-S3-A6ZH" "TCGA-AR-A1AX" "TCGA-E2-A15F"  
 ## [765] "TCGA-E2-A2P5" "TCGA-E9-A3HO" "TCGA-BH-A0E2" "TCGA-A8-A09Z"  
 ## [769] "TCGA-A1-A0SF" "TCGA-A8-A08L" "TCGA-AC-A3W5" "TCGA-EW-A1PA"  
 ## [773] "TCGA-XX-A899" "TCGA-AN-A0FV" "TCGA-AN-A0FK" "TCGA-A0-A12D"  
 ## [777] "TCGA-B6-A2IU" "TCGA-A7-A6VW" "TCGA-A2-A0SW" "TCGA-A8-A094"  
 ## [781] "TCGA-AR-A2LK" "TCGA-A8-A09V" "TCGA-A8-A0A7" "TCGA-OL-A5RU"  
 ## [785] "TCGA-BH-A0HK" "TCGA-C8-A12N" "TCGA-BH-A0HX" "TCGA-AC-A80Q"  
 ## [789] "TCGA-BH-A0RX" "TCGA-C8-A12P" "TCGA-D8-A27M" "TCGA-A2-A0YF"  
 ## [793] "TCGA-A8-A09A" "TCGA-GM-A2DD" "TCGA-OL-A66L" "TCGA-EW-A10V"  
 ## [797] "TCGA-E9-A2JT" "TCGA-E9-A1NE" "TCGA-A0-A0JF" "TCGA-AR-A2LO"  
 ## [801] "TCGA-EW-A1PE" "TCGA-EW-A1PB" "TCGA-BH-A0DS" "TCGA-A0-A0J6"  
 ## [805] "TCGA-GM-A5PX" "TCGA-A8-A099" "TCGA-B6-A0WW" "TCGA-A2-A0CM"  
 ## [809] "TCGA-E2-A158" "TCGA-BH-A0HO" "TCGA-E9-A22B" "TCGA-C8-A120"



## [813] "TCGA-EW-A1PF" "TCGA-AQ-A04H" "TCGA-B6-A40B" "TCGA-AN-A049"  
 ## [817] "TCGA-A7-A13H" "TCGA-B6-A0I2" "TCGA-A8-A079" "TCGA-A8-A08T"  
 ## [821] "TCGA-A2-A0D0" "TCGA-AN-A04D" "TCGA-E2-A150" "TCGA-A8-A0A6"  
 ## [825] "TCGA-E9-A2JS" "TCGA-E9-A1RA" "TCGA-C8-A132" "TCGA-EW-A1P0"  
 ## [829] "TCGA-C8-A1HM" "TCGA-A7-A4SD" "TCGA-E9-A1N5" "TCGA-C8-A12U"  
 ## [833] "TCGA-AR-A1AI" "TCGA-5T-A9QA" "TCGA-E9-A227" "TCGA-AR-A24N"  
 ## [837] "TCGA-OL-A5DA" "TCGA-AC-A3W6" "TCGA-BH-A18H" "TCGA-B6-A0X4"  
 ## [841] "TCGA-A0-A1KR" "TCGA-AC-A3YJ" "TCGA-BH-A202" "TCGA-WT-AB41"  
 ## [845] "TCGA-C8-A27A" "TCGA-A2-A25D" "TCGA-D8-A4Z1" "TCGA-A8-A09R"  
 ## [849] "TCGA-A8-A07L" "TCGA-AN-A0XV" "TCGA-AR-A24V" "TCGA-A2-A1FX"  
 ## [853] "TCGA-A8-A07B" "TCGA-EW-A2FR" "TCGA-D8-A27V" "TCGA-E2-A1IL"  
 ## [857] "TCGA-C8-A26V" "TCGA-EW-A10W" "TCGA-D8-A147" "TCGA-D8-A73W"  
 ## [861] "TCGA-A2-A0CP" "TCGA-PL-A8LX" "TCGA-A2-A3XZ" "TCGA-E9-A295"  
 ## [865] "TCGA-C8-A26W" "TCGA-A0-A0JJ" "TCGA-BH-A1FR" "TCGA-BH-A18F"  
 ## [869] "TCGA-B6-A0RI" "TCGA-A2-A0EU" "TCGA-S3-AA15" "TCGA-E9-A245"  
 ## [873] "TCGA-C8-A12Z" "TCGA-C8-A133" "TCGA-AQ-A1H3" "TCGA-E9-A228"  
 ## [877] "TCGA-A2-A0YE" "TCGA-A2-A4S1" "TCGA-A0-A125" "TCGA-BH-A0HY"  
 ## [881] "TCGA-BH-A42U" "TCGA-BH-A0BC" "TCGA-AN-A041" "TCGA-A2-A0CW"  
 ## [885] "TCGA-S3-AA17" "TCGA-BH-A0BA" "TCGA-A2-A0D3" "TCGA-AC-A6IW"  
 ## [889] "TCGA-AC-A3TN" "TCGA-E2-A10B" "TCGA-OL-A66P" "TCGA-E2-A2P6"  
 ## [893] "TCGA-A0-A03R" "TCGA-AR-A1AQ" "TCGA-E2-A14Q" "TCGA-AR-A24U"  
 ## [897] "TCGA-AQ-A04J" "TCGA-A0-A0JA" "TCGA-E9-A1RG" "TCGA-E2-A154"  
 ## [901] "TCGA-LL-A5Y0" "TCGA-A8-A08A" "TCGA-E9-A1N8" "TCGA-Z7-A8R6"  
 ## [905] "TCGA-BH-A0W3" "TCGA-D8-A1JU" "TCGA-C8-A1HE" "TCGA-A2-A04T"  
 ## [909] "TCGA-PE-A5DD" "TCGA-A2-A25A" "TCGA-E2-A105" "TCGA-EW-A6SA"  
 ## [913] "TCGA-E2-A1AZ" "TCGA-E9-A5FK" "TCGA-EW-A2FV" "TCGA-AN-A0XR"  
 ## [917] "TCGA-LL-A5YN" "TCGA-AC-A2F0" "TCGA-A7-A4SC" "TCGA-OL-A66N"  
 ## [921] "TCGA-E2-A107" "TCGA-E2-A14W" "TCGA-C8-A27B" "TCGA-E2-A150"  
 ## [925] "TCGA-EW-A1J1" "TCGA-B6-A0RN" "TCGA-A2-A0D1" "TCGA-BH-A0HF"  
 ## [929] "TCGA-BH-A1EU" "TCGA-GI-A2C9" "TCGA-E2-A1LH" "TCGA-A0-A0J2"  
 ## [933] "TCGA-OL-A6VR" "TCGA-BH-A1FG" "TCGA-LD-A7W6" "TCGA-A8-A08H"  
 ## [937] "TCGA-BH-A1FN" "TCGA-E9-A226" "TCGA-C8-A1HG" "TCGA-EW-A423"  
 ## [941] "TCGA-D8-A27H" "TCGA-E2-A1BD" "TCGA-BH-A0DL" "TCGA-BH-A2L8"  
 ## [945] "TCGA-BH-A0AV" "TCGA-BH-A1FM" "TCGA-GM-A2DM" "TCGA-A2-A25C"  
 ## [949] "TCGA-B6-A402" "TCGA-B6-A0I9" "TCGA-AQ-A54N" "TCGA-A0-A0JM"  
 ## [953] "TCGA-AN-A0AS" "TCGA-E2-A1L9" "TCGA-A0-A12G" "TCGA-BH-A18S"  
 ## [957] "TCGA-BH-A8FY" "TCGA-OL-A5RX" "TCGA-AC-A23H" "TCGA-AC-A3QP"  
 ## [961] "TCGA-AR-A0TQ" "TCGA-BH-A1F0" "TCGA-A8-A0AB" "TCGA-BH-A18U"  
 ## [965] "TCGA-A8-A06Z" "TCGA-E2-A14U" "TCGA-S3-AA10" "TCGA-A8-A076"  
 ## [969] "TCGA-AR-A1AJ" "TCGA-E9-A1RE" "TCGA-A1-A0SJ" "TCGA-A7-A4SA"  
 ## [973] "TCGA-BH-A0BT" "TCGA-OL-A660" "TCGA-AC-A3YI" "TCGA-E9-A244"  
 ## [977] "TCGA-BH-A8FZ" "TCGA-E2-A1LK" "TCGA-OL-A5RV" "TCGA-LL-A5YL"  
 ## [981] "TCGA-B6-A0X0" "TCGA-BH-A0EA" "TCGA-A0-A1KT" "TCGA-BH-A0BG"  
 ## [985] "TCGA-E2-A14R" "TCGA-BH-A18K" "TCGA-A8-A06Y" "TCGA-BH-A0AZ"  
 ## [989] "TCGA-EW-A1P4" "TCGA-A7-A5ZW" "TCGA-D8-A1JD" "TCGA-B6-A409"  
 ## [993] "TCGA-E9-A248" "TCGA-A2-A0ST" "TCGA-LL-A6FR" "TCGA-AN-A0FX"  
 ## [997] "TCGA-AR-A0TT" "TCGA-BH-A1FL" "TCGA-B6-A0IJ" "TCGA-B6-A0IB"  
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 ## [1017] "TCGA-EW-A3U0" "TCGA-E2-A159" "TCGA-A8-A08Z" "TCGA-EW-A1PG"  
 ## [1021] "TCGA-D8-A27T" "TCGA-A2-A1G1" "TCGA-JL-A3YX" "TCGA-E2-A153"  
 ## [1025] "TCGA-C8-A26Y" "TCGA-AQ-A04L" "TCGA-A8-A08C" "TCGA-C8-A273"

```
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## [1033] "TCGA-BH-A8G0" "TCGA-GM-A2DN" "TCGA-AR-A24X" "TCGA-B6-A0I1"
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## [1089] "TCGA-A8-A070" "TCGA-A2-A1FV" "TCGA-C8-A275" "TCGA-A2-A0CS"
## [1093] "TCGA-AR-A0TU" "TCGA-B6-A401"
```

Uh oh! Looks like neither the row nor column names are very informative. Given what we did to the other data frames, add column and row names to `rna_counts`. Name the columns based on the patient barcodes (ie the row names for `rna_clinical`), and name the rows based on the gene id's (ie the row names for `rna_genes`).

```
rownames(rna_counts) <- rna_genes$gene_id
colnames(rna_counts) <- rownames(rna_clinical)
```

Now, if we look at the data, we'll see the row names set as the gene IDs and the column names as the patient sample barcodes.

```
rownames(rna_counts)
```

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```

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| ## | [1627] | "ENSG00000084234.18" | "ENSG00000084444.14" |
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| ## | [1773] | "ENSG00000088356.6"  | "ENSG00000088367.23" |
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| ## | [1779] | "ENSG00000088538.13" | "ENSG00000088543.15" |

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| ## | [1847] | "ENSG00000089682.16" | "ENSG00000089685.15" |
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| ## | [1885] | "ENSG00000090534.20" | "ENSG00000090539.15" |
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| ## | [1889] | "ENSG00000090581.10" | "ENSG00000090612.22" |
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| ## | [1941] | "ENSG00000091664.9"  | "ENSG00000091704.10" |
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| ## | [1945] | "ENSG00000091844.8"  | "ENSG00000091879.14" |
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| ## | [1949] | "ENSG00000091986.16" | "ENSG00000092009.10" |
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| ## | [1955] | "ENSG00000092054.13" | "ENSG00000092067.6"  |
| ## | [1957] | "ENSG00000092068.20" | "ENSG00000092094.11" |
| ## | [1959] | "ENSG00000092096.18" | "ENSG00000092098.17" |
| ## | [1961] | "ENSG00000092108.22" | "ENSG00000092140.16" |
| ## | [1963] | "ENSG00000092148.13" | "ENSG00000092199.18" |
| ## | [1965] | "ENSG00000092200.12" | "ENSG00000092201.10" |
| ## | [1967] | "ENSG00000092203.15" | "ENSG00000092208.17" |
| ## | [1969] | "ENSG00000092295.12" | "ENSG00000092330.18" |
| ## | [1971] | "ENSG00000092345.14" | "ENSG00000092377.15" |
| ## | [1973] | "ENSG00000092421.17" | "ENSG00000092439.16" |
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| ## | [1977] | "ENSG00000092529.25" | "ENSG00000092531.10" |
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| ## | [1983] | "ENSG00000092841.19" | "ENSG00000092847.13" |
| ## | [1985] | "ENSG00000092850.12" | "ENSG00000092853.14" |
| ## | [1987] | "ENSG00000092871.17" | "ENSG00000092929.12" |
| ## | [1989] | "ENSG00000092931.11" | "ENSG00000092964.18" |
| ## | [1991] | "ENSG00000092969.12" | "ENSG00000092978.11" |
| ## | [1993] | "ENSG00000093000.19" | "ENSG00000093009.11" |
| ## | [1995] | "ENSG00000093010.15" | "ENSG00000093072.18" |

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| ## | [1997] | "ENSG00000093100.13" | "ENSG00000093134.15" |
| ## | [1999] | "ENSG00000093144.19" | "ENSG00000093167.18" |
| ## | [2001] | "ENSG00000093183.14" | "ENSG00000093217.11" |
| ## | [2003] | "ENSG00000094631.21" | "ENSG00000094661.3"  |
| ## | [2005] | "ENSG00000094755.17" | "ENSG00000094796.5"  |
| ## | [2007] | "ENSG00000094804.12" | "ENSG00000094841.14" |
| ## | [2009] | "ENSG00000094880.11" | "ENSG00000094914.14" |
| ## | [2011] | "ENSG00000094916.16" | "ENSG00000094963.14" |
| ## | [2013] | "ENSG00000094975.14" | "ENSG00000095002.15" |
| ## | [2015] | "ENSG00000095015.6"  | "ENSG00000095059.16" |
| ## | [2017] | "ENSG00000095066.12" | "ENSG00000095110.8"  |
| ## | [2019] | "ENSG00000095139.14" | "ENSG00000095203.14" |
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| ## | [2063] | "ENSG00000096401.8"  | "ENSG00000096433.11" |
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| ## | [2159] | "ENSG00000100012.12" | "ENSG00000100014.20" |
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| ## | [2167] | "ENSG00000100031.19" | "ENSG00000100033.16" |
| ## | [2169] | "ENSG00000100034.14" | "ENSG00000100036.13" |
| ## | [2171] | "ENSG00000100038.20" | "ENSG00000100053.10" |
| ## | [2173] | "ENSG00000100055.21" | "ENSG00000100056.12" |
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| ## | [2309] | "ENSG00000100427.16" | "ENSG00000100429.18" |
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| ## | [2317] | "ENSG00000100450.13" | "ENSG00000100453.13" |
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| ## | [2323] | "ENSG00000100479.13" | "ENSG00000100483.14" |
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| ## | [2429] | "ENSG00000101040.19" | "ENSG00000101049.17" |
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| ## [60633] | "ENSG00000288636.1" | "ENSG00000288637.1" |
| ## [60635] | "ENSG00000288638.1" | "ENSG00000288639.1" |
| ## [60637] | "ENSG00000288640.1" | "ENSG00000288642.1" |
| ## [60639] | "ENSG00000288643.1" | "ENSG00000288644.1" |

```
## [60641] "ENSG00000288645.1" "ENSG00000288646.1"
## [60643] "ENSG00000288648.1" "ENSG00000288649.1"
## [60645] "ENSG00000288654.1" "ENSG00000288656.1"
## [60647] "ENSG00000288657.1" "ENSG00000288658.1"
## [60649] "ENSG00000288659.1" "ENSG00000288660.1"
## [60651] "ENSG00000288661.1" "ENSG00000288662.1"
## [60653] "ENSG00000288663.1" "ENSG00000288665.1"
## [60655] "ENSG00000288667.1" "ENSG00000288669.1"
## [60657] "ENSG00000288670.1" "ENSG00000288671.1"
## [60659] "ENSG00000288674.1" "ENSG00000288675.1"
```

```
colnames(rna_counts)
```

```
##      [1] "1"      "2"      "3"      "4"      "5"      "6"      "7"      "8"      "9"      "10"
##     [11] "11"     "12"     "13"     "14"     "15"     "16"     "17"     "18"     "19"     "20"
##     [21] "21"     "22"     "23"     "24"     "25"     "26"     "27"     "28"     "29"     "30"
##     [31] "31"     "32"     "33"     "34"     "35"     "36"     "37"     "38"     "39"     "40"
##     [41] "41"     "42"     "43"     "44"     "45"     "46"     "47"     "48"     "49"     "50"
##     [51] "51"     "52"     "53"     "54"     "55"     "56"     "57"     "58"     "59"     "60"
##     [61] "61"     "62"     "63"     "65"     "66"     "67"     "68"     "69"     "71"     "72"
##     [71] "73"     "74"     "75"     "77"     "80"     "81"     "82"     "83"     "85"     "86"
##     [81] "87"     "88"     "90"     "91"     "92"     "93"     "94"     "95"     "96"     "97"
##     [91] "98"     "99"    "100"    "101"    "102"    "103"    "104"    "105"    "106"    "107"
##    [101] "108"    "109"    "110"    "111"    "112"    "113"    "114"    "116"    "117"    "118"
##    [111] "119"    "120"    "121"    "122"    "123"    "124"    "125"    "126"    "127"    "128"
##    [121] "129"    "131"    "132"    "133"    "134"    "135"    "136"    "137"    "138"    "139"
##    [131] "140"    "141"    "142"    "143"    "144"    "145"    "146"    "147"    "148"    "149"
##    [141] "150"    "151"    "152"    "153"    "154"    "155"    "156"    "157"    "158"    "159"
##    [151] "161"    "162"    "163"    "164"    "165"    "166"    "167"    "168"    "169"    "170"
##    [161] "171"    "172"    "173"    "174"    "175"    "176"    "177"    "179"    "180"    "181"
##    [171] "183"    "184"    "185"    "186"    "187"    "188"    "189"    "190"    "191"    "192"
##    [181] "193"    "195"    "196"    "197"    "198"    "199"    "200"    "201"    "202"    "204"
##    [191] "205"    "206"    "207"    "208"    "209"    "210"    "211"    "212"    "213"    "215"
##    [201] "216"    "217"    "218"    "220"    "222"    "224"    "225"    "226"    "227"    "228"
##    [211] "229"    "230"    "231"    "232"    "233"    "234"    "235"    "236"    "237"    "238"
##    [221] "239"    "240"    "241"    "242"    "243"    "245"    "246"    "247"    "249"    "251"
##    [231] "252"    "253"    "254"    "255"    "258"    "259"    "260"    "261"    "262"    "263"
##    [241] "264"    "265"    "266"    "267"    "268"    "269"    "270"    "271"    "272"    "273"
##    [251] "275"    "276"    "277"    "278"    "279"    "280"    "281"    "282"    "284"    "285"
##    [261] "286"    "287"    "288"    "289"    "291"    "292"    "293"    "294"    "295"    "296"
##    [271] "297"    "298"    "299"    "300"    "301"    "302"    "303"    "304"    "305"    "307"
##    [281] "308"    "309"    "310"    "311"    "312"    "314"    "315"    "316"    "317"    "318"
##    [291] "319"    "320"    "321"    "322"    "323"    "324"    "325"    "326"    "327"    "328"
##    [301] "330"    "332"    "333"    "334"    "335"    "336"    "337"    "338"    "339"    "341"
##    [311] "342"    "343"    "345"    "346"    "347"    "348"    "349"    "350"    "351"    "352"
##    [321] "353"    "355"    "356"    "357"    "358"    "359"    "360"    "361"    "362"    "363"
##    [331] "364"    "365"    "366"    "367"    "369"    "370"    "371"    "372"    "373"    "374"
##    [341] "375"    "376"    "377"    "378"    "380"    "381"    "382"    "383"    "384"    "385"
##    [351] "386"    "387"    "388"    "389"    "390"    "391"    "392"    "393"    "395"    "396"
##    [361] "397"    "399"    "400"    "401"    "402"    "403"    "405"    "406"    "407"    "408"
##    [371] "409"    "410"    "411"    "412"    "413"    "414"    "415"    "416"    "417"    "418"
##    [381] "419"    "420"    "421"    "422"    "423"    "424"    "425"    "426"    "427"    "428"
##    [391] "429"    "430"    "431"    "432"    "433"    "434"    "435"    "436"    "437"    "438"
##    [401] "439"    "440"    "443"    "444"    "445"    "446"    "447"    "448"    "449"    "450"
##    [411] "451"    "452"    "453"    "454"    "455"    "456"    "457"    "458"    "460"    "461"
```

|    |       |        |        |        |        |        |        |        |        |        |        |
|----|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ## | [421] | "462"  | "463"  | "464"  | "466"  | "467"  | "468"  | "470"  | "471"  | "472"  | "474"  |
| ## | [431] | "475"  | "476"  | "478"  | "479"  | "480"  | "481"  | "485"  | "486"  | "487"  | "488"  |
| ## | [441] | "489"  | "490"  | "491"  | "492"  | "493"  | "494"  | "495"  | "496"  | "497"  | "498"  |
| ## | [451] | "499"  | "500"  | "502"  | "503"  | "504"  | "505"  | "508"  | "509"  | "510"  | "512"  |
| ## | [461] | "513"  | "514"  | "515"  | "516"  | "517"  | "518"  | "519"  | "520"  | "521"  | "522"  |
| ## | [471] | "523"  | "525"  | "526"  | "528"  | "531"  | "532"  | "533"  | "534"  | "535"  | "537"  |
| ## | [481] | "538"  | "539"  | "541"  | "542"  | "545"  | "546"  | "547"  | "548"  | "549"  | "550"  |
| ## | [491] | "551"  | "552"  | "553"  | "555"  | "556"  | "558"  | "559"  | "560"  | "561"  | "562"  |
| ## | [501] | "564"  | "565"  | "566"  | "568"  | "569"  | "570"  | "571"  | "572"  | "573"  | "574"  |
| ## | [511] | "575"  | "576"  | "577"  | "578"  | "579"  | "580"  | "581"  | "582"  | "583"  | "584"  |
| ## | [521] | "585"  | "586"  | "587"  | "588"  | "589"  | "590"  | "591"  | "592"  | "593"  | "594"  |
| ## | [531] | "595"  | "596"  | "598"  | "599"  | "600"  | "601"  | "602"  | "603"  | "604"  | "605"  |
| ## | [541] | "606"  | "607"  | "609"  | "610"  | "611"  | "612"  | "613"  | "614"  | "615"  | "616"  |
| ## | [551] | "617"  | "618"  | "619"  | "620"  | "621"  | "622"  | "623"  | "624"  | "625"  | "626"  |
| ## | [561] | "627"  | "628"  | "629"  | "630"  | "631"  | "632"  | "633"  | "634"  | "635"  | "636"  |
| ## | [571] | "637"  | "638"  | "640"  | "641"  | "642"  | "643"  | "644"  | "645"  | "646"  | "647"  |
| ## | [581] | "648"  | "649"  | "650"  | "651"  | "652"  | "653"  | "654"  | "655"  | "656"  | "657"  |
| ## | [591] | "658"  | "659"  | "660"  | "661"  | "662"  | "663"  | "664"  | "665"  | "666"  | "667"  |
| ## | [601] | "668"  | "669"  | "670"  | "671"  | "672"  | "673"  | "674"  | "675"  | "676"  | "677"  |
| ## | [611] | "678"  | "679"  | "680"  | "681"  | "682"  | "683"  | "684"  | "685"  | "686"  | "687"  |
| ## | [621] | "688"  | "689"  | "690"  | "691"  | "692"  | "693"  | "694"  | "695"  | "696"  | "697"  |
| ## | [631] | "698"  | "699"  | "700"  | "701"  | "702"  | "703"  | "704"  | "705"  | "706"  | "707"  |
| ## | [641] | "708"  | "709"  | "711"  | "712"  | "713"  | "714"  | "715"  | "716"  | "717"  | "718"  |
| ## | [651] | "720"  | "721"  | "722"  | "723"  | "725"  | "727"  | "728"  | "729"  | "730"  | "731"  |
| ## | [661] | "732"  | "733"  | "734"  | "735"  | "736"  | "737"  | "738"  | "739"  | "740"  | "741"  |
| ## | [671] | "743"  | "744"  | "745"  | "746"  | "747"  | "748"  | "749"  | "750"  | "751"  | "752"  |
| ## | [681] | "753"  | "754"  | "755"  | "756"  | "757"  | "758"  | "759"  | "761"  | "762"  | "763"  |
| ## | [691] | "764"  | "765"  | "766"  | "767"  | "768"  | "769"  | "770"  | "771"  | "772"  | "773"  |
| ## | [701] | "776"  | "777"  | "778"  | "779"  | "780"  | "781"  | "783"  | "784"  | "785"  | "786"  |
| ## | [711] | "787"  | "788"  | "789"  | "792"  | "794"  | "795"  | "796"  | "797"  | "798"  | "799"  |
| ## | [721] | "800"  | "801"  | "802"  | "803"  | "805"  | "807"  | "808"  | "809"  | "810"  | "811"  |
| ## | [731] | "812"  | "813"  | "814"  | "815"  | "816"  | "817"  | "818"  | "819"  | "820"  | "821"  |
| ## | [741] | "822"  | "823"  | "824"  | "825"  | "826"  | "827"  | "828"  | "829"  | "830"  | "831"  |
| ## | [751] | "832"  | "833"  | "834"  | "835"  | "836"  | "837"  | "838"  | "839"  | "840"  | "841"  |
| ## | [761] | "842"  | "843"  | "844"  | "845"  | "846"  | "847"  | "848"  | "849"  | "850"  | "851"  |
| ## | [771] | "852"  | "853"  | "854"  | "855"  | "856"  | "857"  | "858"  | "859"  | "860"  | "861"  |
| ## | [781] | "862"  | "863"  | "864"  | "865"  | "866"  | "867"  | "868"  | "870"  | "871"  | "872"  |
| ## | [791] | "873"  | "874"  | "875"  | "876"  | "877"  | "878"  | "879"  | "880"  | "881"  | "882"  |
| ## | [801] | "883"  | "884"  | "886"  | "887"  | "888"  | "890"  | "891"  | "892"  | "893"  | "894"  |
| ## | [811] | "895"  | "896"  | "897"  | "898"  | "899"  | "900"  | "901"  | "902"  | "903"  | "904"  |
| ## | [821] | "905"  | "906"  | "907"  | "908"  | "909"  | "910"  | "911"  | "912"  | "913"  | "914"  |
| ## | [831] | "915"  | "917"  | "919"  | "920"  | "921"  | "922"  | "923"  | "925"  | "927"  | "930"  |
| ## | [841] | "931"  | "932"  | "933"  | "934"  | "935"  | "936"  | "937"  | "938"  | "939"  | "940"  |
| ## | [851] | "941"  | "942"  | "943"  | "944"  | "945"  | "946"  | "948"  | "949"  | "950"  | "951"  |
| ## | [861] | "953"  | "954"  | "955"  | "956"  | "957"  | "958"  | "959"  | "961"  | "962"  | "963"  |
| ## | [871] | "964"  | "965"  | "966"  | "967"  | "968"  | "969"  | "970"  | "971"  | "972"  | "973"  |
| ## | [881] | "974"  | "975"  | "977"  | "978"  | "979"  | "980"  | "982"  | "983"  | "984"  | "985"  |
| ## | [891] | "986"  | "987"  | "988"  | "989"  | "990"  | "991"  | "992"  | "993"  | "994"  | "995"  |
| ## | [901] | "996"  | "998"  | "999"  | "1000" | "1001" | "1002" | "1003" | "1004" | "1005" | "1006" |
| ## | [911] | "1007" | "1008" | "1009" | "1012" | "1013" | "1014" | "1015" | "1016" | "1017" | "1018" |
| ## | [921] | "1019" | "1020" | "1021" | "1022" | "1023" | "1025" | "1026" | "1027" | "1028" | "1030" |
| ## | [931] | "1031" | "1032" | "1033" | "1034" | "1037" | "1038" | "1039" | "1040" | "1041" | "1042" |
| ## | [941] | "1043" | "1044" | "1045" | "1046" | "1047" | "1048" | "1049" | "1050" | "1051" | "1052" |
| ## | [951] | "1053" | "1054" | "1055" | "1056" | "1057" | "1058" | "1059" | "1060" | "1061" | "1062" |

```
## [961] "1063" "1064" "1066" "1067" "1069" "1070" "1071" "1072" "1073" "1074"
## [971] "1075" "1076" "1077" "1079" "1080" "1081" "1082" "1083" "1084" "1085"
## [981] "1086" "1087" "1088" "1089" "1090" "1091" "1093" "1094" "1096" "1097"
## [991] "1098" "1099" "1100" "1101" "1102" "1103" "1104" "1105" "1106" "1107"
## [1001] "1108" "1109" "1110" "1112" "1113" "1114" "1117" "1119" "1120" "1121"
## [1011] "1123" "1126" "1128" "1131" "1132" "1133" "1135" "1136" "1137" "1139"
## [1021] "1140" "1141" "1142" "1143" "1145" "1146" "1149" "1150" "1151" "1152"
## [1031] "1153" "1155" "1156" "1158" "1159" "1160" "1161" "1162" "1164" "1165"
## [1041] "1167" "1168" "1169" "1170" "1171" "1172" "1173" "1174" "1176" "1177"
## [1051] "1178" "1181" "1182" "1184" "1185" "1186" "1187" "1188" "1189" "1191"
## [1061] "1192" "1193" "1194" "1195" "1198" "1199" "1200" "1201" "1202" "1203"
## [1071] "1204" "1205" "1207" "1208" "1209" "1210" "1211" "1212" "1213" "1217"
## [1081] "1218" "1219" "1220" "1221" "1222" "1223" "1224" "1225" "1226" "1227"
## [1091] "1228" "1229" "1230" "1231"
```

---

Great! Now all of our data frames are ready for exploration and analysis.

#### (6) Saving data as csv

Loading data from TCGA can be time consuming. It's much faster to access csv files.

Save rna\_clinical to your local machine

```
write.csv(rna_clinical, "/home1/tefera/analysis_data/brca_rna_clinical_data.csv", row.names = TRUE)
```

Save rna\_genes to your local machine.

```
write.csv(rna_genes, "/home1/tefera/analysis_data/brca_rna_gene_data.csv", row.names = FALSE)
```

Save rna\_counts to your local machine (warning: this will likely take a while!)

```
write.csv(rna_counts, "/home1/tefera/analysis_data/brca_rna_count_data.csv", row.names = TRUE)
```