# Data Exploration

Group 4

2023-07-06

```
# loads all needed libraries
library(dplyr)
library(tidyr)
library(readxl)
library(tidyverse)
library(reshape2)
```

## Exploring the Data

What is your outcome variable(s)? How well does it measure the outcome you are interested in? How does it relate to your hypotheses? What are your key explanatory variables? In addition, create a table of summary statistics for the variables you are planning to use.

General Answer: Our outcome variable is civil society participation, which is v2x_cspart in the code.

We will use the predictor variables listed above, which include: civil society repression effort scores, v2csreprss social support scores, happiness freedom to make life choices, happiness presence of war, e_civil_war presence of coups, e_pt_coup participation rate in civil society, v2x_partipdem generosity, happiness education, e_peaveduc and government corruption. v2x_corr

### Merging data - James

```
wh_2023 <- read_excel("/cloud/project/data/wh_2023.xls")
# View(wh_2023)

load("/cloud/project/data/vdemdata-master/data/vdem.RData")
```

```r
# colnames(wh_2023)
# colnames(vdem)
```

```r
need_vdem=c("country_name","year","v2csreprss",'e_civil_war',"e_pt_coup",
"v2x_partipdem","e_peaveduc","v2x_corr","v2x_cspart","v2xcs_ccsi")

vdem_use=vdem[,need_vdem]

need_wh=c("Country name","year","Social support","Freedom to make life choices","Generosit
wh_use=wh_2023[,need_wh]

colnames(wh_use)[1] <- "country_name"

total=merge(vdem_use, wh_use, by = c("country_name", "year"),
            all.x=TRUE,
            all.y=TRUE)
```

## Cleaning data - Alicia

- Count how many NA observations we have. If it is under %, we will omit the obs. or we could assign some values to them using given method.
- Drop columns not needed
- Rename the columns based on the code book
- Histograms and box plots
- Create a table of summary statistics for the variables you are planning to use.

```r
# changing the NA entries with a median of that column
summary(total)
```

```
country_name            year        v2csreprss       e_civil_war
Length:27672       Min.   :1789   Min.   :-3.7590   Min.   :0.000
Class :character   1st Qu.:1880   1st Qu.:-1.1460   1st Qu.:0.000
Mode  :character   Median :1939   Median :-0.2670   Median :0.000
                   Mean   :1929   Mean   :-0.0836   Mean   :0.061
                   3rd Qu.:1983   3rd Qu.: 0.9520   3rd Qu.:0.000
                   Max.   :2022   Max.   : 3.3240   Max.   :1.000
                                  NA's   :584       NA's   :13896
```

```
  e_pt_coup      v2x_partipdem       e_peaveduc         v2x_corr
Min.   :0.000   Min.   :0.0030   Min.   : 0.010   Min.   :0.0020
1st Qu.:0.000   1st Qu.:0.0300   1st Qu.: 1.494   1st Qu.:0.1770
Median :0.000   Median :0.0770   Median : 4.015   Median :0.4410
Mean   :0.023   Mean   :0.1607   Mean   : 4.647   Mean   :0.4385
3rd Qu.:0.000   3rd Qu.:0.2210   3rd Qu.: 7.230   3rd Qu.:0.6890
Max.   :3.000   Max.   :0.8140   Max.   :13.300   Max.   :0.9710
NA's   :17299   NA's   :2011     NA's   :13074    NA's   :1008
  v2x_cspart       v2xcs_ccsi     Social support  Freedom to make life choices
Min.   :0.0140   Min.   :0.0080   Min.   :0.228   Min.   :0.258
1st Qu.:0.1200   1st Qu.:0.1480   1st Qu.:0.747   1st Qu.:0.657
Median :0.2700   Median :0.3600   Median :0.836   Median :0.770
Mean   :0.3722   Mean   :0.4257   Mean   :0.811   Mean   :0.748
3rd Qu.:0.6150   3rd Qu.:0.7130   3rd Qu.:0.905   3rd Qu.:0.859
Max.   :0.9890   Max.   :0.9830   Max.   :0.987   Max.   :0.985
NA's   :744      NA's   :514      NA's   :25486   NA's   :25506
  Generosity
Min.   :-0.338
1st Qu.:-0.112
Median :-0.023
Mean   : 0.000
3rd Qu.: 0.092
Max.   : 0.703
NA's   :25546
```

```r
total_not_NA <- total %>% na.omit()
# Because we are missing too many observations when we drop NAs, we will assign
# median of each column to the NA values instead

# We might need a different method for e_civil_war
# because it is all binary 0 and 1
# remove the column from the set of columns parsed in the mutate function below
total$e_civil_war <- as.character(total$e_civil_war)
total$e_pt_coup <- as.numeric(total$e_pt_coup)

#replace missing values in each numeric column with median value of column
new_total <- total %>% mutate(across(where(is.numeric),~replace_na(.,median(.,na.rm=TRUE))))

# convert the e_civil_war and e_pt_coup columns to get summary()
new_total$e_civil_war <- as.numeric(new_total$e_civil_war)
```

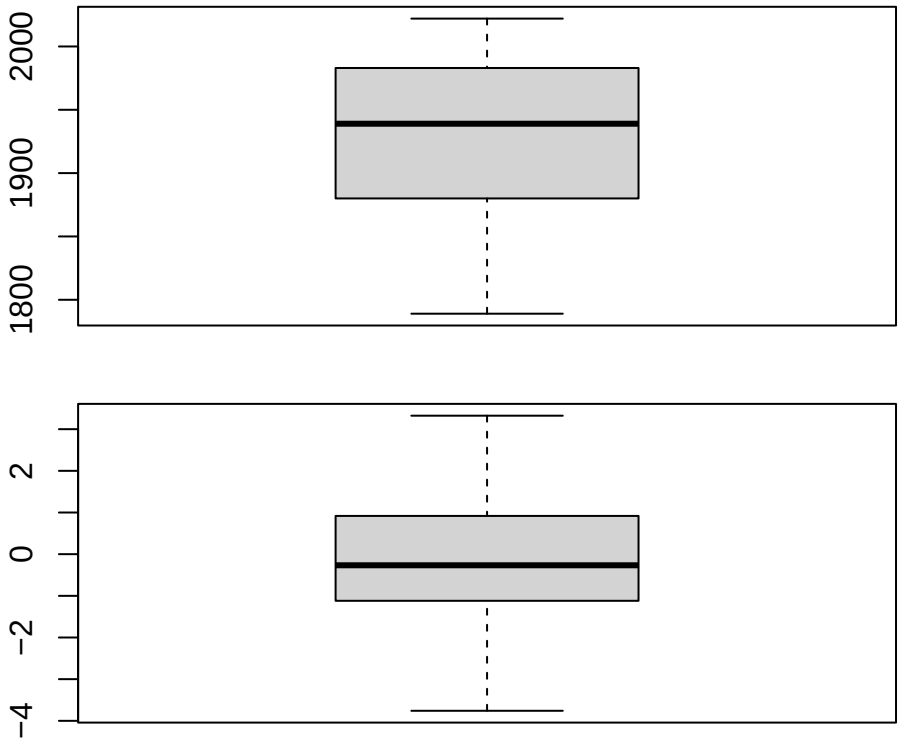
```r
# Get the summary of our combined data set
summary_table <- summary(new_total)
summary_table
```

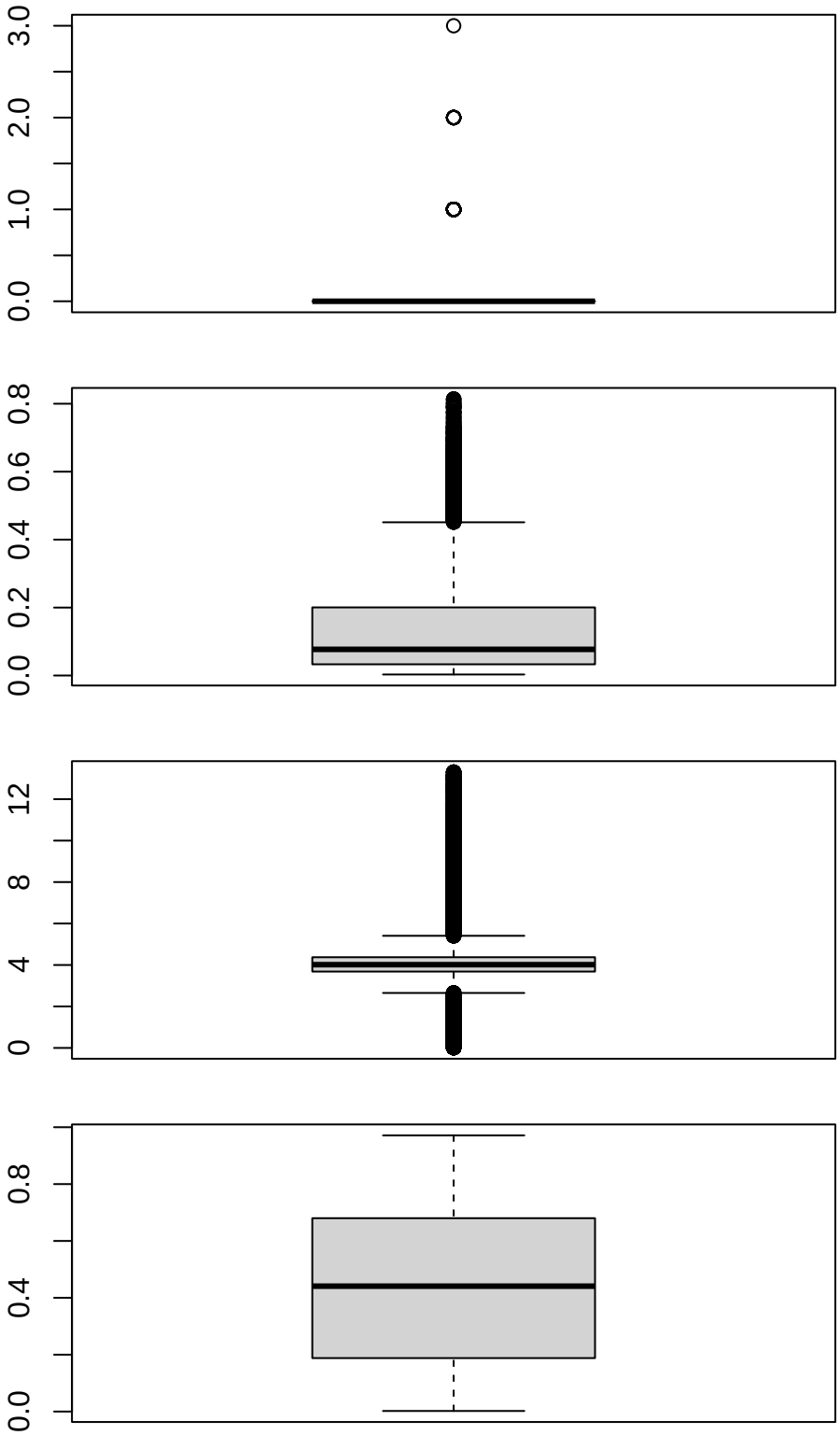
```
country_name            year        v2csreprss        e_civil_war
Length:27672       Min.   :1789   Min.   :-3.75900   Min.   :0.000
Class :character   1st Qu.:1880   1st Qu.:-1.11900   1st Qu.:0.000
Mode  :character   Median :1939   Median :-0.26700   Median :0.000
                   Mean   :1929   Mean   :-0.08743   Mean   :0.061
                   3rd Qu.:1983   3rd Qu.: 0.91800   3rd Qu.:0.000
                   Max.   :2022   Max.   : 3.32400   Max.   :1.000
                                                     NA's   :13896
  e_pt_coup        v2x_partipdem      e_peaveduc        v2x_corr
Min.   :0.000000   Min.   :0.0030   Min.   : 0.010   Min.   :0.0020
1st Qu.:0.000000   1st Qu.:0.0330   1st Qu.: 3.685   1st Qu.:0.1880
Median :0.000000   Median :0.0770   Median : 4.015   Median :0.4410
Mean   :0.008709   Mean   :0.1546   Mean   : 4.348   Mean   :0.4386
3rd Qu.:0.000000   3rd Qu.:0.2003   3rd Qu.: 4.374   3rd Qu.:0.6800
Max.   :3.000000   Max.   :0.8140   Max.   :13.300   Max.   :0.9710

  v2x_cspart       v2xcs_ccsi     Social support
Min.   :0.0140   Min.   :0.0080   Min.   :0.2282
1st Qu.:0.1240   1st Qu.:0.1500   1st Qu.:0.8355
Median :0.2700   Median :0.3600   Median :0.8355
Mean   :0.3694   Mean   :0.4244   Mean   :0.8336
3rd Qu.:0.6000   3rd Qu.:0.7020   3rd Qu.:0.8355
Max.   :0.9890   Max.   :0.9830   Max.   :0.9873

Freedom to make life choices   Generosity
Min.   :0.2575                Min.   :-0.33753
1st Qu.:0.7698                1st Qu.:-0.02267
Median :0.7698                Median :-0.02267
Mean   :0.7681                Mean   :-0.02092
3rd Qu.:0.7698                3rd Qu.:-0.02267
Max.   :0.9852                Max.   : 0.70271
```

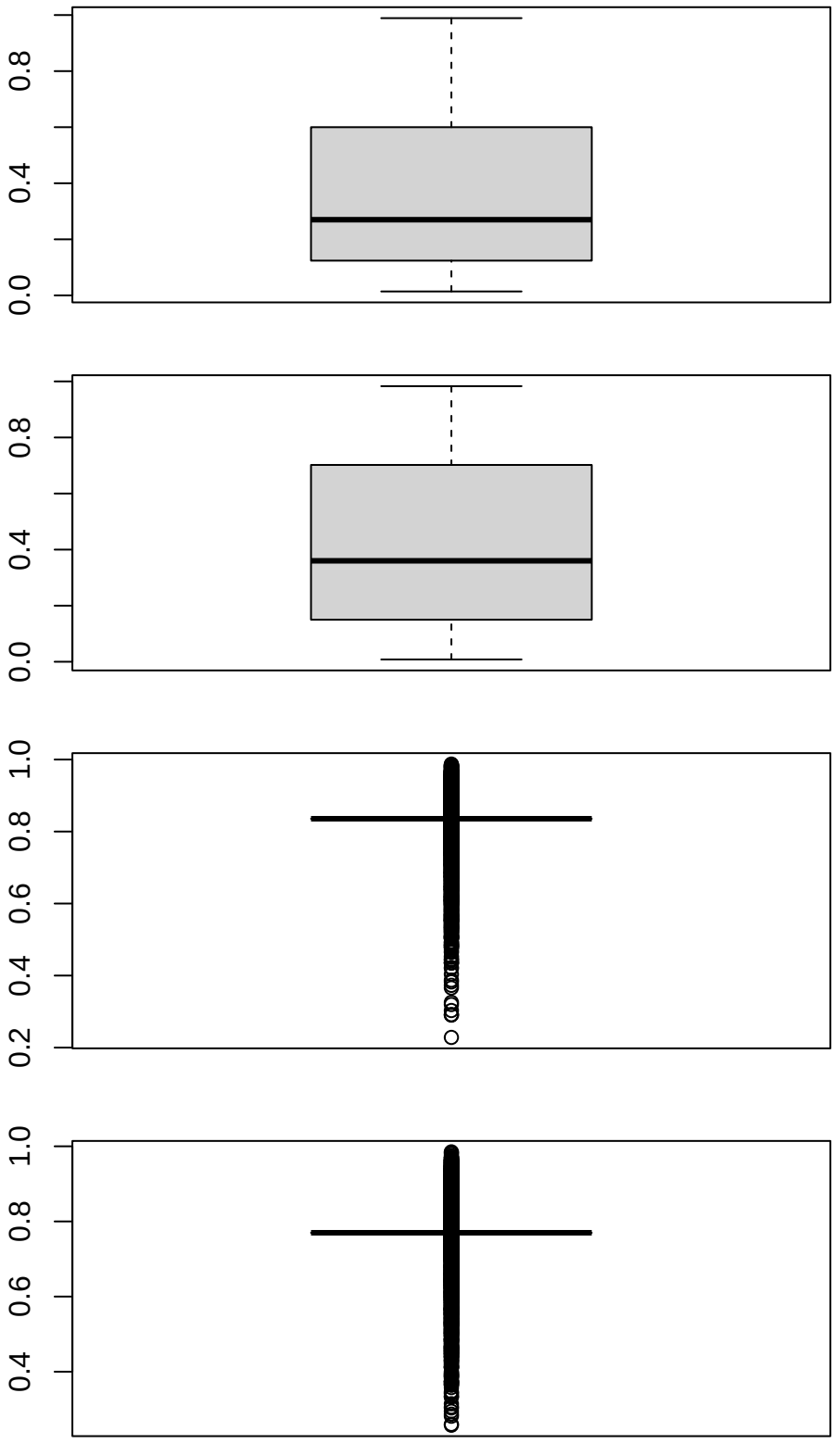
```r
# Get the summary of the e_civil_war variable
new_total %>% group_by(e_civil_war) %>% count()
```

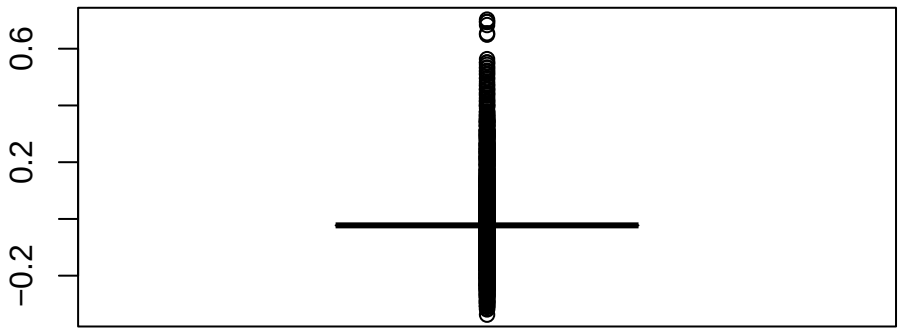
```
# A tibble: 3 x 2
# Groups:   e_civil_war [3]
  e_civil_war     n
        <dbl> <int>
1           0 12932
2           1   844
3          NA 13896
```

```r
# Boxplots and Histograms
# Draw boxplots for each column
selected <- new_total %>% select(-c(country_name, e_civil_war))

# Need to add labels to plots
# Need to change axis scale
lapply(selected, function(x) boxplot(x, main = colnames(selected)[which(colnames(selected)
```




0.0
1.0
2.0
3.0
0.0
0.2
0.4
0.6
0.8
0
4
8
12
0.0
0.4
0.8


0.0
0.4
0.8
0.0
0.4
0.8
0.2
0.4
0.6
0.8
1.0
0.4
0.6
0.8
1.0




```
$year
$year$stats
     [,1]
[1,] 1789
[2,] 1880
[3,] 1939
[4,] 1983
[5,] 2022

$year$n
[1] 27672

$year$conf
         [,1]
[1,] 1938.022
[2,] 1939.978

$year$out
numeric(0)

$year$group
numeric(0)

$year$names
[1] ""


$v2csreprss
$v2csreprss$stats
       [,1]
[1,] -3.759
[2,] -1.119
```

```
[3,] -0.267
[4,]  0.918
[5,]  3.324

$v2csreprss$n
[1] 27672

$v2csreprss$conf
           [,1]
[1,] -0.2863476
[2,] -0.2476524

$v2csreprss$out
numeric(0)

$v2csreprss$group
numeric(0)

$v2csreprss$names
[1] ""


$e_pt_coup
$e_pt_coup$stats
     [,1]
[1,]    0
[2,]    0
[3,]    0
[4,]    0
[5,]    0

$e_pt_coup$n
[1] 27672

$e_pt_coup$conf
     [,1]
[1,]    0
[2,]    0

$e_pt_coup$out
  [1] 1 1 1 1 1 2 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1
 [38] 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 [75] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 1 2 1
```

```
[112] 1 1 1 1 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1
[149] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1
[186] 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
[223] 1 1 1 1

$e_pt_coup$group
  [1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 [38] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 [75] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
[112] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
[149] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
[186] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
[223] 1 1 1 1

$e_pt_coup$names
[1] ""


$v2x_partipdem
$v2x_partipdem$stats
       [,1]
[1,] 0.0030
[2,] 0.0330
[3,] 0.0770
[4,] 0.2005
[5,] 0.4510

$v2x_partipdem$n
[1] 27672

$v2x_partipdem$conf
           [,1]
[1,] 0.07540907
[2,] 0.07859093

$v2x_partipdem$out
   [1] 0.588 0.567 0.564 0.570 0.571 0.568 0.567 0.569 0.572 0.565 0.578 0.576
  [13] 0.571 0.572 0.575 0.575 0.581 0.581 0.573 0.558 0.555 0.553 0.543 0.545
  [25] 0.539 0.530 0.524 0.527 0.527 0.533 0.536 0.522 0.504 0.500 0.515 0.517
  [37] 0.561 0.551 0.560 0.563 0.515 0.457 0.458 0.541 0.539 0.545 0.545 0.572
  [49] 0.572 0.570 0.569 0.560 0.558 0.557 0.556 0.537 0.528 0.532 0.518 0.533
  [61] 0.556 0.582 0.582 0.579 0.575 0.569 0.563 0.569 0.571 0.571 0.565 0.570
  [73] 0.570 0.568 0.566 0.564 0.562 0.560 0.568 0.568 0.537 0.520 0.520 0.541
```

```
 [85] 0.540 0.543 0.543 0.579 0.582 0.582 0.582 0.579 0.569 0.574 0.585 0.591
 [97] 0.592 0.595 0.592 0.588 0.585 0.580 0.576 0.574 0.577 0.576 0.576 0.582
[109] 0.620 0.620 0.620 0.629 0.629 0.639 0.643 0.643 0.642 0.638 0.671 0.674
[121] 0.674 0.679 0.677 0.673 0.673 0.678 0.678 0.680 0.676 0.673 0.671 0.677
[133] 0.675 0.673 0.665 0.659 0.653 0.635 0.621 0.618 0.640 0.645 0.642 0.635
[145] 0.635 0.631 0.627 0.623 0.626 0.638 0.635 0.639 0.638 0.638 0.610 0.603
[157] 0.610 0.614 0.646 0.636 0.593 0.613 0.609 0.614 0.454 0.454 0.453 0.458
[169] 0.459 0.459 0.463 0.462 0.462 0.457 0.457 0.530 0.531 0.531 0.535 0.535
[181] 0.534 0.534 0.539 0.539 0.539 0.581 0.577 0.577 0.578 0.586 0.588 0.587
[193] 0.583 0.583 0.584 0.585 0.590 0.590 0.590 0.589 0.590 0.595 0.598 0.602
[205] 0.602 0.602 0.602 0.636 0.639 0.644 0.643 0.643 0.640 0.636 0.633 0.629
[217] 0.625 0.618 0.620 0.616 0.614 0.614 0.615 0.639 0.636 0.638 0.638 0.638
[229] 0.636 0.624 0.622 0.620 0.617 0.616 0.615 0.622 0.629 0.627 0.629 0.624
[241] 0.621 0.623 0.657 0.655 0.655 0.632 0.636 0.624 0.615 0.610 0.588 0.556
[253] 0.472 0.500 0.486 0.486 0.486 0.490 0.492 0.492 0.492 0.491 0.491 0.571
[265] 0.574 0.578 0.578 0.578 0.579 0.581 0.581 0.578 0.577 0.583 0.584 0.587
[277] 0.587 0.585 0.584 0.586 0.586 0.586 0.587 0.597 0.590 0.593 0.593 0.593
[289] 0.592 0.595 0.596 0.598 0.601 0.611 0.612 0.619 0.619 0.622 0.626 0.629
[301] 0.629 0.629 0.630 0.633 0.633 0.633 0.633 0.615 0.627 0.630 0.633 0.639
[313] 0.639 0.642 0.644 0.644 0.643 0.643 0.642 0.641 0.639 0.639 0.640 0.633
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[373] 0.589 0.589 0.595 0.599 0.599 0.599 0.599 0.611 0.611 0.660 0.659 0.655
[385] 0.654 0.654 0.650 0.648 0.641 0.633 0.628 0.616 0.514 0.495 0.466 0.453
[397] 0.454 0.455 0.454 0.454 0.454 0.455 0.468 0.483 0.469 0.499 0.465 0.454
[409] 0.452 0.454 0.488 0.486 0.452 0.454 0.456 0.456 0.470 0.459 0.452 0.461
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[433] 0.518 0.518 0.538 0.554 0.563 0.567 0.567 0.569 0.569 0.569 0.567 0.566
[445] 0.571 0.572 0.574 0.580 0.573 0.571 0.571 0.571 0.571 0.571 0.571 0.571
[457] 0.575 0.575 0.580 0.578 0.578 0.578 0.578 0.578 0.578 0.578 0.602 0.604
[469] 0.609 0.609 0.612 0.605 0.602 0.599 0.598 0.589 0.581 0.578 0.575 0.576
[481] 0.575 0.576 0.573 0.573 0.573 0.560 0.555 0.557 0.556 0.565 0.582 0.588
[493] 0.593 0.607 0.606 0.603 0.600 0.476 0.477 0.477 0.477 0.472 0.471 0.476
[505] 0.476 0.476 0.476 0.481 0.486 0.486 0.486 0.481 0.491 0.492 0.495 0.495
[517] 0.497 0.488 0.494 0.483 0.501 0.506 0.489 0.466 0.512 0.512 0.542 0.542
[529] 0.561 0.562 0.564 0.562 0.586 0.586 0.582 0.582 0.582 0.578 0.592 0.592
[541] 0.592 0.591 0.581 0.583 0.584 0.584 0.593 0.593 0.593 0.593 0.578 0.557
[553] 0.593 0.590 0.571 0.480 0.470 0.470 0.470 0.474 0.474 0.474 0.474 0.473
[565] 0.478 0.472 0.472 0.477 0.478 0.478 0.478 0.479 0.479 0.479 0.479 0.484
[577] 0.490 0.490 0.490 0.488 0.529 0.538 0.538 0.547 0.561 0.578 0.578 0.594
[589] 0.596 0.596 0.596 0.598 0.598 0.606 0.606 0.623 0.624 0.624 0.624 0.627
```

```
 [601] 0.632 0.633 0.633 0.634 0.634 0.633 0.635 0.655 0.654 0.654 0.654 0.657
 [613] 0.698 0.698 0.698 0.701 0.701 0.698 0.693 0.690 0.681 0.677 0.668 0.661
 [625] 0.656 0.655 0.648 0.627 0.473 0.480 0.478 0.482 0.469 0.482 0.485 0.492
 [637] 0.491 0.519 0.567 0.581 0.596 0.617 0.612 0.598 0.541 0.524 0.522 0.522
 [649] 0.535 0.524 0.507 0.477 0.492 0.499 0.497 0.497 0.497 0.499 0.501 0.490
 [661] 0.490 0.524 0.532 0.535 0.532 0.571 0.558 0.565 0.571 0.565 0.566 0.571
 [673] 0.574 0.573 0.575 0.575 0.576 0.574 0.565 0.563 0.562 0.517 0.507 0.479
 [685] 0.466 0.469 0.469 0.469 0.470 0.478 0.478 0.478 0.478 0.464 0.458 0.458
 [697] 0.516 0.577 0.576 0.587 0.587 0.587 0.586 0.585 0.580 0.575 0.587 0.587
 [709] 0.593 0.625 0.625 0.628 0.632 0.633 0.632 0.621 0.614 0.620 0.618 0.599
 [721] 0.585 0.584 0.582 0.571 0.547 0.543 0.542 0.532 0.565 0.625 0.603 0.603
 [733] 0.608 0.647 0.647 0.647 0.647 0.646 0.643 0.641 0.642 0.640 0.637 0.634
 [745] 0.632 0.630 0.616 0.612 0.609 0.605 0.603 0.626 0.626 0.484 0.663 0.662
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 [769] 0.692 0.700 0.700 0.731 0.729 0.724 0.722 0.725 0.715 0.714 0.710 0.714
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 [793] 0.697 0.695 0.728 0.725 0.722 0.719 0.717 0.715 0.729 0.734 0.733 0.732
 [805] 0.732 0.728 0.733 0.731 0.728 0.726 0.725 0.720 0.716 0.721 0.717 0.713
 [817] 0.710 0.722 0.719 0.717 0.714 0.711 0.711 0.710 0.708 0.708 0.708 0.702
 [829] 0.698 0.694 0.702 0.460 0.460 0.484 0.481 0.476 0.473 0.466 0.473 0.474
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 [865] 0.469 0.465 0.487 0.635 0.623 0.621 0.613 0.611 0.608 0.604 0.604 0.601
 [877] 0.599 0.640 0.640 0.637 0.635 0.632 0.630 0.624 0.625 0.621 0.618 0.611
 [889] 0.610 0.616 0.635 0.630 0.640 0.626 0.623 0.625 0.619 0.464 0.501 0.494
 [901] 0.506 0.551 0.562 0.561 0.561 0.563 0.565 0.566 0.558 0.550 0.555 0.560
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 [925] 0.565 0.565 0.565 0.565 0.567 0.567 0.567 0.568 0.569 0.573 0.589 0.589
 [937] 0.589 0.589 0.589 0.593 0.593 0.593 0.601 0.605 0.606 0.614 0.643 0.642
 [949] 0.641 0.641 0.641 0.637 0.635 0.633 0.631 0.633 0.633 0.631 0.634 0.633
 [961] 0.631 0.629 0.627 0.626 0.625 0.624 0.624 0.608 0.607 0.611 0.619 0.621
 [973] 0.620 0.614 0.612 0.468 0.491 0.497 0.502 0.504 0.506 0.506 0.487 0.498
 [985] 0.499 0.505 0.537 0.529 0.530 0.564 0.564 0.578 0.577 0.576 0.577 0.578
 [997] 0.574 0.600 0.623 0.623 0.616 0.621 0.622 0.628 0.626 0.622 0.621 0.619
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[1211]  6.296  6.690  7.084  7.286  7.489  7.692  7.895  8.098  8.301  8.503
[1221]  8.706  8.909  9.112  9.190  9.267  9.345  9.423  9.500  9.578  9.656
[1231]  9.734  9.811  9.889  9.889  9.889  9.889  9.889  9.889  9.889  9.889
[1241]  9.889  9.889  9.889  9.889  9.889  0.460  0.469  0.478  0.487  0.496
[1251]  0.505  0.514  0.523  0.532  0.541  0.550  0.559  0.568  0.577  0.586
[1261]  0.595  0.604  0.613  0.622  0.631  0.640  0.650  0.660  0.671  0.681
[1271]  0.691  0.701  0.711  0.722  0.732  0.742  0.755  0.767  0.780  0.792
[1281]  0.805  0.818  0.830  0.843  0.855  0.868  0.885  0.902  0.920  0.937
[1291]  0.954  0.971  0.988  1.006  1.023  1.040  1.063  1.086  1.109  1.132
[1301]  1.155  1.178  1.201  1.224  1.247  1.270  1.308  1.346  1.383  1.421
[1311]  1.459  1.497  1.535  1.572  1.610  1.648  1.719  1.789  1.860  1.930
[1321]  2.001  2.072  2.142  2.213  2.283  2.354  2.427  2.499  2.572  2.644
[1331]  5.464  5.660  5.856  6.052  6.248  6.444  6.640  6.730  6.820  6.910
[1341]  7.000  7.090  7.180  7.270  7.360  7.450  7.540  7.600  7.660  7.720
[1351]  7.780  7.840  7.900  7.960  8.020  8.080  8.140  8.140  8.140  8.140
[1361]  8.140  8.140  8.140  8.140  8.140  8.140  8.140  8.140  8.140  1.910
[1371]  1.941  1.972  2.003  2.034  2.065  2.096  2.127  2.158  2.189  2.220
[1381]  2.270  2.320  2.370  2.420  2.470  2.520  2.570  2.620  5.410  5.482
[1391]  5.554  5.626  5.698  5.770  5.928  6.086  6.244  6.402  6.560  6.718
[1401]  6.876  7.034  7.192  7.350  7.421  7.492  7.563  7.634  7.705  7.776
[1411]  7.847  7.918  7.989  8.060  8.153  8.246  8.339  8.432  8.525  8.618
[1421]  8.711  8.804  8.897  8.990  9.051  9.112  9.173  9.234  9.295  9.356
[1431]  9.417  9.478  9.539  9.600  9.702  9.804  9.906 10.008 10.110 10.212
[1441] 10.314 10.416 10.518 10.620 10.686 10.752 10.818 10.884 10.950 11.016
[1451] 11.082 11.148 11.214 11.280 11.280 11.280 11.280 11.280 11.280 11.280
[1461] 11.280 11.280 11.280 11.280 11.280 11.280  0.055  0.059  0.064  0.068
[1471]  0.073  0.077  0.082  0.086  0.091  0.095  0.100  0.112  0.123  0.135
[1481]  0.147  0.159  0.171  0.182  0.194  0.206  0.218  0.239  0.260  0.280
[1491]  0.301  0.322  0.343  0.364  0.385  0.405  0.426  0.472  0.518  0.564
[1501]  0.609  0.655  0.701  0.747  0.792  0.838  0.884  0.938  0.993  1.047
[1511]  1.102  1.156  1.211  1.265  1.319  1.374  1.428  1.428  1.428  1.428
[1521]  1.428  1.428  1.428  1.428  1.428  1.428  1.428  1.428  1.428  0.699
[1531]  0.700  0.701  0.702  0.703  0.704  0.705  0.706  0.707  0.708  0.709
[1541]  0.735  0.761  0.787  0.813  0.839  0.865  0.891  0.917  0.943  0.970
[1551]  0.978  0.986  0.995  1.003  1.012  1.020  1.028  1.037  1.045  1.054
[1561]  1.145  1.237  1.328  1.420  1.511  1.603  1.694  1.786  1.877  1.969
[1571]  2.005  2.041  2.078  2.114  2.150  2.186  2.222  2.259  2.295  2.331
[1581]  2.331  2.331  2.331  2.331  2.331  2.331  2.331  2.331  2.331  2.331
[1591]  2.331  2.331  5.423  5.448  5.474  5.500  5.526  5.552  5.577  5.603
[1601]  5.629  5.655  5.682  5.708  5.735  5.762  5.788  5.815  5.841  5.868
[1611]  5.894  5.894  5.894  5.894  5.894  5.894  5.894  5.894  5.894  5.894
[1621]  5.894  5.894  5.894  1.880  1.997  2.114  2.231  2.348  2.465  2.582
[1631]  5.710  5.759  5.808  5.857  5.906  5.955  6.004  6.053  6.102  6.151
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[1641]  6.200  6.248  6.296  6.344  6.392  6.440  6.488  6.536  6.584  6.632
[1651]  6.680  6.722  6.764  6.806  6.848  6.890  6.932  6.974  7.016  7.058
[1661]  7.100  7.153  7.206  7.259  7.312  7.365  7.418  7.471  7.524  7.577
[1671]  7.630  7.671  7.712  7.753  7.794  7.835  7.876  7.917  7.958  7.999
[1681]  8.040  8.084  8.128  8.172  8.216  8.260  8.304  8.348  8.392  8.436
[1691]  8.480  8.515  8.550  8.585  8.620  8.655  8.690  8.725  8.760  8.795
[1701]  8.830  8.862  8.894  8.926  8.958  8.990  9.022  9.054  9.086  9.118
[1711]  9.150  9.189  9.228  9.267  9.306  9.345  9.384  9.423  9.462  9.501
[1721]  9.540  9.576  9.612  9.648  9.684  9.720  9.756  9.792  9.828  9.864
[1731]  9.900 10.031 10.162 10.293 10.424 10.555 10.686 10.817 10.948 11.079
[1741] 11.210 11.309 11.408 11.507 11.606 11.705 11.804 11.903 12.002 12.101
[1751] 12.200 12.264 12.328 12.392 12.456 12.520 12.584 12.648 12.712 12.776
[1761] 12.840 12.864 12.888 12.912 12.936 12.960 12.984 13.008 13.032 13.056
[1771] 13.080 13.080 13.080 13.080 13.080 13.080 13.080 13.080 13.080 13.080
[1781] 13.080 13.080 13.080  0.502  0.524  0.546  0.569  0.591  0.614  0.636
[1791]  0.658  0.681  0.703  0.726  0.795  0.864  0.933  1.002  1.071  1.140
[1801]  1.210  1.279  1.348  1.417  1.483  1.549  1.616  1.682  1.748  1.814
[1811]  1.880  1.947  2.013  2.079  2.143  2.207  2.271  2.335  2.399  2.463
[1821]  2.527  2.590  0.264  0.360  0.455  0.550  0.646  0.741  0.837  0.932
[1831]  1.027  1.123  1.218  1.302  1.386  1.469  1.553  1.636  1.720  1.804
[1841]  1.887  1.971  2.055  2.148  2.241  2.334  2.428  2.521  2.614  5.433
[1851]  5.637  5.841  6.045  6.249  6.249  6.249  6.249  6.249  6.249  6.249
[1861]  6.249  6.249  6.249  6.249  6.249  6.249  0.940  0.951  0.961  0.972
[1871]  0.982  0.993  1.003  1.014  1.024  1.035  1.045  1.097  1.150  1.202
[1881]  1.255  1.308  1.360  1.413  1.465  1.518  1.570  1.586  1.602  1.618
[1891]  1.634  1.650  1.666  1.682  1.698  1.714  1.730  1.761  1.792  1.823
[1901]  1.854  1.885  1.916  1.947  1.978  2.009  2.040  2.125  2.210  2.295
[1911]  2.380  2.465  2.550  2.635  5.420  5.475  5.530  5.585  5.640  5.695
[1921]  5.750  5.820  5.890  5.960  6.030  6.100  6.170  6.240  6.310  6.380
[1931]  6.450  6.585  6.720  6.855  6.990  7.125  7.260  7.395  7.530  7.665
[1941]  7.800  7.916  8.032  8.148  8.264  8.380  8.496  8.612  8.728  8.844
[1951]  8.960  9.059  9.158  9.257  9.356  9.455  9.554  9.653  9.752  9.851
[1961]  9.950  9.991 10.032 10.073 10.114 10.155 10.196 10.237 10.278 10.319
[1971] 10.360 10.360 10.360 10.360 10.360 10.360 10.360 10.360 10.360 10.360
[1981] 10.360 10.360 10.360  0.799  0.800  0.800  0.801  0.801  0.802  0.802
[1991]  0.803  0.804  0.804  0.805  0.825  0.846  0.866  0.887  0.907  0.928
[2001]  0.948  0.969  0.989  1.010  1.015  1.020  1.025  1.030  1.035  1.040
[2011]  1.045  1.050  1.055  1.060  1.065  1.070  1.075  1.080  1.085  1.090
[2021]  1.095  1.100  1.105  1.110  1.115  1.120  1.125  1.130  1.135  1.140
[2031]  1.145  1.150  1.155  1.160  1.165  1.170  1.175  1.180  1.185  1.190
[2041]  1.195  1.200  1.205  1.210  1.215  1.220  1.225  1.230  1.235  1.240
[2051]  1.245  1.250  1.255  1.260  1.265  1.270  1.275  1.280  1.285  1.290
[2061]  1.295  1.300  1.305  1.310  1.325  1.340  1.355  1.370  1.385  1.400
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[2071]  1.415  1.430  1.445  1.460  1.483  1.506  1.529  1.551  1.574  1.597
[2081]  1.620  1.643  1.666  1.688  1.766  1.844  1.921  1.999  2.077  2.154
[2091]  2.232  2.309  2.387  2.465  2.571  5.505  5.602  5.730  5.858  5.986
[2101]  6.114  6.242  6.370  6.499  6.627  6.755  6.883  6.963  7.044  7.124
[2111]  7.205  7.285  7.366  7.446  7.527  7.607  7.688  7.688  7.688  7.688
[2121]  7.688  7.688  7.688  7.688  7.688  7.688  7.688  7.688  7.688  0.898
[2131]  0.911  0.923  0.936  0.949  0.961  0.974  0.987  0.999  1.012  1.025
[2141]  1.051  1.078  1.105  1.131  1.158  1.185  1.211  1.238  1.265  1.291
[2151]  1.324  1.356  1.388  1.421  1.453  1.485  1.518  1.550  1.582  1.615
[2161]  1.685  1.755  1.825  1.895  1.965  2.035  2.105  2.175  2.245  2.315
[2171]  2.364  2.412  2.460  2.509  2.557  2.605  5.445  5.553  5.661  5.769
[2181]  5.876  5.984  6.081  6.179  6.276  6.373  6.470  6.568  6.665  6.762
[2191]  6.859  6.956  7.021  7.086  7.151  7.215  7.280  7.345  7.410  7.475
[2201]  7.539  7.604  7.604  7.604  7.604  7.604  7.604  7.604  7.604  7.604
[2211]  7.604  7.604  7.604  7.604  0.900  0.931  0.962  0.993  1.024  1.055
[2221]  1.086  1.117  1.148  1.179  1.210  1.241  1.272  1.303  1.334  1.365
[2231]  1.396  1.427  1.458  1.489  1.520  1.537  1.554  1.571  1.588  1.605
[2241]  1.622  1.639  1.656  1.673  1.690  1.722  1.754  1.786  1.818  1.850
[2251]  1.882  1.914  1.946  1.978  2.010  2.022  2.034  2.046  2.058  2.070
[2261]  2.082  2.094  2.106  2.118  2.130  2.155  2.180  2.205  2.230  2.255
[2271]  2.280  2.305  2.330  2.355  2.380  2.423  2.466  2.509  2.552  2.595
[2281]  2.638  5.465  5.572  5.679  5.786  5.893  6.000  6.089  6.178  6.267
[2291]  6.356  6.445  6.534  6.623  6.712  6.801  6.890  6.951  7.012  7.073
[2301]  7.134  7.195  7.256  7.317  7.378  7.439  7.500  7.500  7.500  7.500
[2311]  7.500  7.500  7.500  7.500  7.500  7.500  7.500  7.500  7.500  0.830
[2321]  0.841  0.852  0.863  0.874  0.885  0.896  0.907  0.918  0.929  0.940
[2331]  0.950  0.960  0.970  0.980  0.990  1.000  1.010  1.020  1.030  1.040
[2341]  1.058  1.076  1.094  1.112  1.130  1.148  1.166  1.184  1.202  1.220
[2351]  1.249  1.278  1.307  1.336  1.365  1.394  1.423  1.452  1.481  1.510
[2361]  1.567  1.624  1.681  1.738  1.795  1.852  1.909  1.966  2.023  2.080
[2371]  2.137  2.194  2.251  2.308  2.365  2.422  2.479  2.536  2.593  2.650
[2381]  5.432  5.566  5.700  5.886  6.072  6.258  6.444  6.630  6.816  7.002
[2391]  7.188  7.374  7.560  7.699  7.838  7.977  8.116  8.255  8.394  8.533
[2401]  8.672  8.811  8.950  9.083  9.216  9.349  9.482  9.615  9.748  9.881
[2411] 10.014 10.147 10.280 10.280 10.280 10.280 10.280 10.280 10.280 10.280
[2421] 10.280 10.280 10.280 10.280 10.280  0.543  0.591  0.639  0.687  0.734
[2431]  0.782  0.830  0.878  0.926  0.973  1.021  1.103  1.186  1.268  1.350
[2441]  1.432  1.514  1.596  1.679  1.761  1.843  1.944  2.046  2.147  2.248
[2451]  2.350  2.451  2.553  5.457  5.525  5.592  5.660  5.727  5.794  5.862
[2461]  5.929  6.004  6.078  6.152  6.226  6.301  6.375  6.449  6.523  6.597
[2471]  6.672  6.757  6.842  6.927  7.013  7.098  7.183  7.268  7.353  7.439
[2481]  7.524  7.617  7.710  7.804  7.897  7.990  8.084  8.177  8.270  8.363
[2491]  8.457  8.544  8.630  8.717  8.804  8.891  8.978  9.064  9.151  9.238
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[2501]  9.325  9.325  9.325  9.325  9.325  9.325  9.325  9.325  9.325  9.325
[2511]  9.325  9.325  9.325  8.142  8.208  8.274  8.340  8.406  8.471  8.537
[2521]  8.603  8.669  8.735  8.801  8.866  8.932  8.998  9.064  9.130  9.195
[2531]  9.261  9.327  9.393  9.459  9.501  9.544  9.586  9.629  9.671  9.713
[2541]  9.756  9.798  9.841  9.883  9.927  9.970 10.014 10.057 10.101 10.144
[2551] 10.188 10.231 10.275 10.318 10.362 10.405 10.449 10.492 10.536 10.579
[2561] 10.623 10.666 10.710 10.753 10.803 10.852 10.901 10.951 11.000 11.049
[2571] 11.099 11.148 11.198 11.247 11.247 11.247 11.247 11.247 11.247 11.247
[2581] 11.247 11.247 11.247 11.247 11.247 11.247  5.430  5.466  5.502  5.538
[2591]  5.574  5.610  5.645  5.680  5.715  5.750  5.785  5.820  5.855  5.890
[2601]  5.925  5.960  5.997  6.034  6.071  6.108  6.145  6.182  6.219  6.256
[2611]  6.293  6.330  6.359  6.388  6.417  6.446  6.475  6.504  6.533  6.562
[2621]  6.591  6.620  6.651  6.682  6.713  6.744  6.775  6.806  6.837  6.868
[2631]  6.899  6.930  6.998  7.066  7.134  7.202  7.270  7.338  7.406  7.474
[2641]  7.542  7.610  7.734  7.858  7.982  8.106  8.230  8.354  8.478  8.602
[2651]  8.726  8.850  8.949  9.048  9.147  9.246  9.345  9.444  9.543  9.642
[2661]  9.741  9.840  9.937 10.034 10.131 10.228 10.325 10.422 10.519 10.616
[2671] 10.713 10.810 10.869 10.928 10.987 11.046 11.105 11.164 11.223 11.282
[2681] 11.341 11.400 11.462 11.524 11.586 11.648 11.710 11.772 11.834 11.896
[2691] 11.958 12.020 12.025 12.030 12.035 12.040 12.045 12.050 12.055 12.060
[2701] 12.065 12.070 12.070 12.070 12.070 12.070 12.070 12.070 12.070 12.070
[2711] 12.070 12.070 12.070 12.070  0.490  0.506  0.522  0.538  0.554  0.570
[2721]  0.586  0.602  0.618  0.634  0.650  0.665  0.680  0.695  0.710  0.725
[2731]  0.740  0.755  0.770  0.785  0.800  0.816  0.832  0.848  0.864  0.880
[2741]  0.896  0.912  0.928  0.944  0.960  0.975  0.990  1.005  1.020  1.035
[2751]  1.050  1.065  1.080  1.095  1.110  1.125  1.140  1.155  1.170  1.185
[2761]  1.200  1.215  1.230  1.245  1.260  1.277  1.294  1.311  1.328  1.345
[2771]  1.362  1.379  1.396  1.413  1.430  1.447  1.464  1.481  1.498  1.515
[2781]  1.532  1.549  1.566  1.583  1.600  1.639  1.678  1.717  1.756  1.795
[2791]  1.834  1.873  1.912  1.951  1.990  2.046  2.102  2.158  2.214  2.270
[2801]  2.326  2.382  2.438  2.494  2.550  5.410  5.500  5.590  5.680  5.770
[2811]  5.860  5.950  6.021  6.092  6.163  6.234  6.305  6.376  6.447  6.518
[2821]  6.589  6.660  6.660  6.660  6.660  6.660  6.660  6.660  6.660  6.660
[2831]  6.660  6.660  6.660  6.660  1.374  1.391  1.408  1.425  1.442  1.459
[2841]  1.476  1.493  1.510  1.527  1.544  1.561  1.577  1.594  1.610  1.627
[2851]  1.643  1.660  1.676  1.693  1.709  1.725  1.741  1.757  1.773  1.789
[2861]  1.805  1.821  1.837  1.853  1.869  1.884  1.898  1.913  1.927  1.942
[2871]  1.956  1.971  1.985  2.000  2.014  2.037  2.060  2.083  2.107  2.130
[2881]  2.153  2.176  2.199  2.222  2.245  2.292  2.339  2.386  2.433  2.480
[2891]  2.527  2.574  2.621  5.470  5.577  5.683  5.790  5.896  6.003  6.109
[2901]  6.215  6.308  6.400  6.493  6.585  6.678  6.770  6.863  6.955  7.048
[2911]  7.140  7.227  7.314  7.401  7.488  7.575  7.662  7.749  7.836  7.922
[2921]  8.009  8.066  8.123  8.180  8.237  8.294  8.351  8.408  8.465  8.522
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[2931]  8.579  8.579  8.579  8.579  8.579  8.579  8.579  8.579  8.579  8.579
[2941]  8.579  8.579  8.579  0.150  0.152  0.154  0.156  0.158  0.160  0.162
[2951]  0.164  0.166  0.168  0.170  0.176  0.182  0.188  0.194  0.200  0.206
[2961]  0.212  0.218  0.224  0.230  0.237  0.244  0.251  0.258  0.265  0.272
[2971]  0.279  0.286  0.293  0.300  0.312  0.324  0.336  0.348  0.360  0.372
[2981]  0.384  0.396  0.408  0.420  0.423  0.426  0.429  0.432  0.435  0.438
[2991]  0.441  0.444  0.447  0.450  0.479  0.508  0.537  0.566  0.595  0.624
[3001]  0.653  0.682  0.711  0.740  0.761  0.782  0.803  0.824  0.845  0.866
[3011]  0.887  0.908  0.929  0.950  1.002  1.054  1.106  1.158  1.210  1.262
[3021]  1.314  1.366  1.418  1.470  1.484  1.498  1.512  1.526  1.540  1.554
[3031]  1.568  1.582  1.596  1.610  1.625  1.640  1.655  1.670  1.685  1.700
[3041]  1.715  1.730  1.745  1.760  1.891  2.022  2.153  2.284  2.415  2.546
[3051]  5.486  5.654  5.822  5.990  6.158  6.326  6.494  6.662  6.830  6.919
[3061]  7.008  7.097  7.186  7.275  7.364  7.453  7.542  7.631  7.720  7.720
[3071]  7.720  7.720  7.720  7.720  7.720  7.720  7.720  7.720  7.720  7.720
[3081]  7.720  0.600  0.619  0.638  0.657  0.676  0.695  0.714  0.733  0.752
[3091]  0.771  0.790  0.809  0.828  0.847  0.866  0.885  0.904  0.923  0.942
[3101]  0.961  0.980  0.998  1.016  1.034  1.052  1.070  1.088  1.106  1.124
[3111]  1.142  1.160  1.171  1.182  1.193  1.204  1.215  1.226  1.237  1.248
[3121]  1.259  1.270  1.269  1.268  1.267  1.266  1.265  1.264  1.263  1.262
[3131]  1.261  1.260  1.269  1.278  1.287  1.296  1.305  1.314  1.323  1.332
[3141]  1.341  1.350  1.348  1.346  1.344  1.342  1.340  1.338  1.336  1.334
[3151]  1.332  1.330  1.357  1.384  1.411  1.438  1.465  1.492  1.519  1.546
[3161]  1.573  1.600  1.642  1.684  1.726  1.768  1.810  1.852  1.894  1.936
[3171]  1.978  2.020  2.076  2.132  2.188  2.244  2.300  2.356  2.412  2.468
[3181]  2.524  2.580  5.447  5.516  5.585  5.654  5.723  5.792  5.861  5.930
[3191]  5.930  5.930  5.930  5.930  5.930  5.930  5.930  5.930  5.930  5.930
[3201]  5.930  5.930  9.776  9.925 10.073 10.222 10.370 10.518 10.667 10.815
[3211] 10.964 11.112 11.261 11.280 11.300 11.319 11.339 11.358 11.378 11.397
[3221] 11.417 11.436 11.456 11.456 11.456 11.456 11.456 11.456 11.456 11.456
[3231] 11.456 11.456 11.456 11.456 11.456  1.230  1.281  1.332  1.383  1.434
[3241]  1.485  1.536  1.587  1.638  1.689  1.740  1.858  1.976  2.094  2.212
[3251]  2.330  2.448  2.566  5.440  5.570  5.700  5.830  5.951  6.072  6.193
[3261]  6.314  6.435  6.556  6.677  6.798  6.919  7.040  7.118  7.196  7.274
[3271]  7.352  7.430  7.508  7.586  7.664  7.742  7.820  7.820  7.820  7.820
[3281]  7.820  7.820  7.820  7.820  7.820  7.820  7.820  7.820  7.820  5.517
[3291]  5.638  5.760  5.881  6.002  6.124  6.245  6.340  6.434  6.528  6.623
[3301]  6.717  6.811  6.906  7.000  7.094  7.189  7.251  7.313  7.375  7.438
[3311]  7.500  7.562  7.624  7.687  7.749  7.811  7.855  7.899  7.942  7.986
[3321]  8.030  8.073  8.117  8.161  8.204  8.248  8.248  8.248  8.248  8.248
[3331]  8.248  8.248  8.248  8.248  8.248  8.248  8.248  8.248  1.450  1.458
[3341]  1.466  1.474  1.482  1.490  1.498  1.506  1.514  1.522  1.530  1.539
[3351]  1.548  1.557  1.566  1.575  1.584  1.593  1.602  1.611  1.620  1.631
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[3361]  1.642  1.653  1.664  1.675  1.686  1.697  1.708  1.719  1.730  1.757
[3371]  1.784  1.811  1.838  1.865  1.892  1.919  1.946  1.973  2.000  2.071
[3381]  2.142  2.213  2.284  2.355  2.426  2.497  2.568  2.639  5.470  5.572
[3391]  5.674  5.776  5.878  5.980  6.077  6.174  6.271  6.368  6.465  6.562
[3401]  6.659  6.756  6.853  6.950  7.019  7.088  7.157  7.226  7.295  7.364
[3411]  7.433  7.502  7.571  7.640  7.821  8.002  8.183  8.364  8.545  8.726
[3421]  8.907  9.088  9.269  9.450  9.563  9.676  9.789  9.902 10.015 10.128
[3431] 10.241 10.354 10.467 10.580 10.669 10.758 10.847 10.936 11.025 11.114
[3441] 11.203 11.292 11.381 11.470 11.526 11.582 11.638 11.694 11.750 11.806
[3451] 11.862 11.918 11.974 12.030 12.030 12.030 12.030 12.030 12.030 12.030
[3461] 12.030 12.030 12.030 12.030 12.030 12.030  5.452  5.538  5.623  5.709
[3471]  5.794  5.846  5.897  5.949  6.000  6.052  6.104  6.155  6.207  6.258
[3481]  6.310  6.378  6.446  6.514  6.582  6.650  6.718  6.786  6.854  6.922
[3491]  6.990  7.044  7.098  7.152  7.206  7.260  7.314  7.368  7.422  7.476
[3501]  7.530  7.549  7.568  7.587  7.606  7.625  7.644  7.663  7.682  7.701
[3511]  7.720  7.748  7.776  7.804  7.832  7.860  7.888  7.916  7.944  7.972
[3521]  8.000  8.012  8.024  8.036  8.048  8.060  8.072  8.084  8.096  8.108
[3531]  8.120  8.153  8.186  8.219  8.252  8.285  8.318  8.351  8.384  8.417
[3541]  8.450  8.606  8.762  8.918  9.074  9.230  9.386  9.542  9.698  9.854
[3551] 10.010 10.115 10.220 10.325 10.430 10.535 10.640 10.745 10.850 10.955
[3561] 11.060 11.101 11.142 11.183 11.224 11.265 11.306 11.347 11.388 11.429
[3571] 11.470 11.507 11.544 11.581 11.618 11.655 11.692 11.729 11.766 11.803
[3581] 11.840 11.902 11.964 12.026 12.088 12.150 12.212 12.274 12.336 12.398
[3591] 12.460 12.460 12.460 12.460 12.460 12.460 12.460 12.460 12.460 12.460
[3601] 12.460 12.460 12.460  1.901  1.942  1.984  2.025  2.067  2.108  2.149
[3611]  2.191  2.232  2.274  2.315  2.441  2.567  5.466  5.545  5.625  5.704
[3621]  5.704  5.704  5.704  5.704  5.704  5.704  5.704  5.704  5.704  5.704
[3631]  5.704  5.704 10.515 10.530 10.546 10.562 10.577 10.593 10.609 10.624
[3641] 10.640 10.656 10.671 10.695 10.718 10.741 10.764 10.787 10.810 10.833
[3651] 10.856 10.879 10.902 10.902 10.902 10.902 10.902 10.902 10.902 10.902
[3661] 10.902 10.902 10.902 10.902 10.902  5.440  5.466  5.492  5.518  5.544
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[3681]  5.900  5.940  5.980  6.020  6.060  6.100  6.137  6.174  6.211  6.248
[3691]  6.285  6.322  6.359  6.396  6.433  6.470  6.522  6.574  6.626  6.678
[3701]  6.730  6.782  6.834  6.886  6.938  6.990  7.036  7.082  7.128  7.174
[3711]  7.220  7.266  7.312  7.358  7.404  7.450  7.478  7.506  7.534  7.562
[3721]  7.590  7.618  7.646  7.674  7.702  7.730  7.782  7.834  7.886  7.938
[3731]  7.990  8.042  8.094  8.146  8.198  8.250  8.297  8.343  8.390  8.437
[3741]  8.483  8.530  8.645  8.760  8.875  8.990  9.105  9.220  9.335  9.450
[3751]  9.565  9.680  9.818  9.956 10.094 10.232 10.370 10.508 10.646 10.784
[3761] 10.922 11.060 11.189 11.318 11.447 11.576 11.705 11.834 11.963 12.092
[3771] 12.221 12.350 12.420 12.490 12.560 12.630 12.700 12.770 12.840 12.910
[3781] 12.980 13.050 13.034 13.018 13.002 12.986 12.970 12.954 12.938 12.922
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[3791] 12.906 12.890 12.899 12.908 12.917 12.926 12.935 12.944 12.953 12.962
[3801] 12.971 12.980 12.980 12.980 12.980 12.980 12.980 12.980 12.980 12.980
[3811] 12.980 12.980 12.980 12.980  0.120  0.126  0.132  0.138  0.144  0.150
[3821]  0.156  0.162  0.168  0.174  0.180  0.192  0.204  0.216  0.228  0.240
[3831]  0.252  0.264  0.276  0.288  0.300  0.312  0.324  0.336  0.348  0.360
[3841]  0.372  0.384  0.396  0.408  0.420  0.496  0.572  0.648  0.724  0.800
[3851]  0.876  0.952  1.028  1.104  1.180  1.255  1.330  1.405  1.480  1.555
[3861]  1.630  1.705  1.780  1.855  1.930  2.077  2.224  2.371  2.518  5.418
[3871]  5.450  5.482  5.514  5.546  5.578  5.610  5.610  5.610  5.610  5.610
[3881]  5.610  5.610  5.610  5.610  5.610  5.610  5.610  5.610  1.410  1.445
[3891]  1.480  1.515  1.550  1.585  1.620  1.655  1.690  1.725  1.760  1.791
[3901]  1.822  1.853  1.884  1.915  1.946  1.977  2.008  2.039  2.070  2.100
[3911]  2.130  2.160  2.190  2.220  2.250  2.280  2.310  2.340  2.370  2.404
[3921]  2.438  2.472  2.506  2.540  2.574  2.608  2.642  5.436  5.515  5.594
[3931]  5.673  5.752  5.831  5.910  5.991  6.072  6.153  6.234  6.315  6.396
[3941]  6.477  6.558  6.639  6.720  6.793  6.866  6.939  7.012  7.085  7.158
[3951]  7.231  7.304  7.377  7.450  7.565  7.680  7.795  7.910  8.025  8.140
[3961]  8.255  8.370  8.485  8.600  8.727  8.854  8.981  9.108  9.235  9.362
[3971]  9.489  9.616  9.743  9.870  9.953 10.036 10.119 10.202 10.285 10.368
[3981] 10.451 10.534 10.617 10.700 10.700 10.700 10.700 10.700 10.700 10.700
[3991] 10.700 10.700 10.700 10.700 10.700 10.700  0.510  0.526  0.542  0.558
[4001]  0.574  0.590  0.606  0.622  0.638  0.654  0.670  0.686  0.702  0.718
[4011]  0.734  0.750  0.766  0.782  0.798  0.814  0.830  0.844  0.858  0.872
[4021]  0.886  0.900  0.914  0.928  0.942  0.956  0.970  0.982  0.994  1.006
[4031]  1.018  1.030  1.042  1.054  1.066  1.078  1.090  1.095  1.100  1.105
[4041]  1.110  1.115  1.120  1.125  1.130  1.135  1.140  1.146  1.152  1.158
[4051]  1.164  1.170  1.176  1.182  1.188  1.194  1.200  1.222  1.244  1.266
[4061]  1.288  1.310  1.332  1.354  1.376  1.398  1.420  1.446  1.472  1.498
[4071]  1.524  1.550  1.576  1.602  1.628  1.654  1.680  1.696  1.712  1.728
[4081]  1.744  1.760  1.776  1.792  1.808  1.824  1.840  1.856  1.872  1.888
[4091]  1.904  1.920  1.936  1.952  1.968  1.984  2.000  2.080  2.160  2.240
[4101]  2.320  2.400  2.480  2.560  2.640  5.442  5.500  5.500  5.500  5.500
[4111]  5.500  5.500  5.500  5.500  5.500  5.500  5.500  5.500  5.500  0.207
[4121]  0.259  0.312  0.365  0.418  0.471  0.524  0.577  0.630  0.682  0.735
[4131]  0.791  0.847  0.904  0.960  1.016  1.072  1.128  1.184  1.240  1.296
[4141]  1.354  1.413  1.471  1.529  1.587  1.646  1.704  1.762  1.821  1.879
[4151]  1.922  1.965  2.008  2.051  2.094  2.137  2.180  2.223  2.266  2.309
[4161]  2.413  2.517  2.621  2.154  2.208  2.262  2.317  2.371  2.425  2.479
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[4201]  7.765  7.856  7.948  8.039  8.130  8.222  8.313  8.376  8.439  8.501
[4211]  8.564  8.627  8.690  8.753  8.816  8.878  8.941  8.941  8.941  8.941
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[4221]  8.941  8.941  8.941  8.941  8.941  8.941  8.941  8.941  8.941  0.926
[4231]  0.921  0.916  0.911  0.906  0.901  0.895  0.890  0.885  0.880  0.875
[4241]  0.879  0.883  0.886  0.890  0.894  0.898  0.901  0.905  0.909  0.913
[4251]  0.932  0.951  0.970  0.990  1.009  1.028  1.048  1.067  1.086  1.105
[4261]  1.136  1.166  1.196  1.226  1.257  1.287  1.317  1.347  1.378  1.408
[4271]  1.463  1.519  1.574  1.629  1.685  1.740  1.795  1.851  1.906  1.962
[4281]  2.068  2.174  2.280  2.386  2.492  2.598  0.640  0.661  0.682  0.703
[4291]  0.724  0.745  0.766  0.787  0.808  0.829  0.850  0.870  0.890  0.910
[4301]  0.930  0.950  0.970  0.990  1.010  1.030  1.050  1.070  1.090  1.110
[4311]  1.130  1.150  1.170  1.190  1.210  1.230  1.250  1.271  1.292  1.313
[4321]  1.334  1.355  1.376  1.397  1.418  1.439  1.460  1.465  1.470  1.475
[4331]  1.480  1.485  1.490  1.495  1.500  1.505  1.510  1.517  1.524  1.531
[4341]  1.538  1.545  1.552  1.559  1.566  1.573  1.580  1.579  1.578  1.577
[4351]  1.576  1.575  1.574  1.573  1.572  1.571  1.570  1.580  1.590  1.600
[4361]  1.610  1.620  1.630  1.640  1.650  1.660  1.670  1.693  1.716  1.739
[4371]  1.762  1.785  1.808  1.831  1.854  1.877  1.900  2.060  2.220  2.380
[4381]  2.540  5.430  5.466  5.502  5.538  5.574  5.610  5.646  5.682  5.718
[4391]  5.754  5.790  5.790  5.790  5.790  5.790  5.790  5.790  5.790  5.790
[4401]  5.790  5.790  5.790  5.790  2.578  2.617  5.411  5.454  5.497  5.540
[4411]  5.597  5.654  5.711  5.768  5.825  5.882  5.939  5.996  6.053  6.110
[4421]  6.191  6.272  6.353  6.434  6.515  6.596  6.677  6.758  6.839  6.920
[4431]  7.018  7.116  7.214  7.312  7.410  7.508  7.606  7.704  7.802  7.900
[4441]  8.011  8.122  8.233  8.344  8.455  8.566  8.677  8.788  8.899  9.010
[4451]  9.096  9.182  9.268  9.354  9.440  9.526  9.612  9.698  9.784  9.870
[4461]  9.958 10.046 10.134 10.222 10.310 10.398 10.486 10.574 10.662 10.750
[4471] 10.794 10.838 10.882 10.926 10.970 11.014 11.058 11.102 11.146 11.190
[4481] 11.190 11.190 11.190 11.190 11.190 11.190 11.190 11.190 11.190 11.190
[4491] 11.190 11.190  5.433  5.522  5.612  5.701  5.790  5.894  5.999  6.103
[4501]  6.208  6.312  6.417  6.521  6.626  6.730  6.835  6.974  7.114  7.254
[4511]  7.393  7.533  7.673  7.812  7.952  8.092  8.231  8.352  8.473  8.595
[4521]  8.716  8.837  8.958  9.079  9.200  9.321  9.442  9.558  9.674  9.790
[4531]  9.906 10.022 10.138 10.254 10.370 10.485 10.601 10.680 10.759 10.837
[4541] 10.916 10.995 11.074 11.152 11.231 11.310 11.388 11.388 11.388 11.388
[4551] 11.388 11.388 11.388 11.388 11.388 11.388 11.388 11.388 11.388  0.080
[4561]  0.083  0.086  0.089  0.092  0.095  0.098  0.101  0.104  0.107  0.110
[4571]  0.114  0.118  0.122  0.126  0.130  0.134  0.138  0.142  0.146  0.150
[4581]  0.164  0.178  0.192  0.206  0.220  0.234  0.248  0.262  0.276  0.290
[4591]  0.298  0.306  0.314  0.322  0.330  0.338  0.346  0.354  0.362  0.370
[4601]  0.384  0.398  0.412  0.426  0.440  0.454  0.468  0.482  0.496  0.510
[4611]  0.529  0.548  0.567  0.586  0.605  0.624  0.643  0.662  0.681  0.700
[4621]  0.723  0.746  0.769  0.792  0.815  0.838  0.861  0.884  0.907  0.930
[4631]  0.953  0.976  0.999  1.022  1.045  1.068  1.091  1.114  1.137  1.160
[4641]  1.190  1.220  1.250  1.280  1.310  1.340  1.370  1.400  1.430  1.460
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[4651]  1.515  1.570  1.625  1.680  1.735  1.790  1.845  1.900  1.955  2.010
[4661]  2.078  2.146  2.214  2.282  2.350  2.418  2.486  2.554  2.622  0.290
[4671]  0.291  0.292  0.293  0.294  0.295  0.296  0.297  0.298  0.299  0.300
[4681]  0.301  0.302  0.303  0.304  0.305  0.306  0.307  0.308  0.309  0.310
[4691]  0.311  0.312  0.313  0.314  0.315  0.316  0.317  0.318  0.319  0.320
[4701]  0.322  0.324  0.326  0.328  0.330  0.332  0.334  0.336  0.338  0.340
[4711]  0.341  0.342  0.343  0.344  0.345  0.346  0.347  0.348  0.349  0.350
[4721]  0.350  0.350  0.350  0.350  0.350  0.350  0.350  0.350  0.350  0.350
[4731]  0.352  0.354  0.356  0.358  0.360  0.362  0.364  0.366  0.368  0.370
[4741]  0.382  0.394  0.406  0.418  0.430  0.442  0.454  0.466  0.478  0.490
[4751]  0.514  0.538  0.562  0.586  0.610  0.634  0.658  0.682  0.706  0.730
[4761]  0.793  0.856  0.919  0.982  1.045  1.108  1.171  1.234  1.297  1.360
[4771]  1.471  1.582  1.693  1.804  1.915  2.026  2.137  2.248  2.359  2.470
[4781]  2.610  5.520  5.593  5.666  5.739  5.812  5.885  5.958  6.031  6.104
[4791]  6.177  6.250  6.250  6.250  6.250  6.250  6.250  6.250  6.250  6.250
[4801]  6.250  6.250  6.250  6.250  0.190  0.191  0.192  0.193  0.194  0.195
[4811]  0.196  0.197  0.198  0.199  0.200  0.203  0.206  0.209  0.212  0.215
[4821]  0.218  0.221  0.224  0.227  0.230  0.245  0.260  0.275  0.290  0.305
[4831]  0.320  0.335  0.350  0.365  0.380  0.418  0.456  0.494  0.532  0.570
[4841]  0.608  0.646  0.684  0.722  0.760  0.824  0.888  0.952  1.016  1.080
[4851]  1.144  1.208  1.272  1.336  1.400  1.546  1.692  1.838  1.984  2.130
[4861]  2.276  2.422  2.568  5.492  5.610  5.728  5.846  5.964  6.082  6.200
[4871]  6.258  6.316  6.374  6.432  6.490  6.548  6.606  6.664  6.722  6.780
[4881]  6.780  6.780  6.780  6.780  6.780  6.780  6.780  6.780  6.780  6.780
[4891]  6.780  6.780  5.880  5.951  6.022  6.093  6.164  6.235  6.306  6.377
[4901]  6.448  6.519  6.590  6.613  6.636  6.659  6.682  6.705  6.728  6.751
[4911]  6.774  6.797  6.820  6.851  6.882  6.913  6.944  6.975  7.006  7.037
[4921]  7.068  7.099  7.130  7.188  7.246  7.304  7.362  7.420  7.478  7.536
[4931]  7.594  7.652  7.710  7.778  7.846  7.914  7.982  8.050  8.118  8.186
[4941]  8.254  8.322  8.390  8.430  8.470  8.510  8.550  8.590  8.630  8.670
[4951]  8.710  8.750  8.790  8.863  8.936  9.009  9.082  9.155  9.228  9.301
[4961]  9.374  9.447  9.520  9.583  9.646  9.709  9.772  9.835  9.898  9.961
[4971] 10.024 10.087 10.150 10.204 10.258 10.312 10.366 10.420 10.474 10.528
[4981] 10.582 10.636 10.690 10.690 10.690 10.690 10.690 10.690 10.690 10.690
[4991] 10.690 10.690 10.690 10.690 10.690  6.840  6.868  6.897  6.925  6.953
[5001]  6.982  7.010  7.038  7.066  7.095  7.123  7.206  7.289  7.373  7.456
[5011]  7.539  7.622  7.705  7.789  7.872  7.955  8.098  8.240  8.383  8.525
[5021]  8.668  8.811  8.953  9.096  9.238  9.381  9.439  9.497  9.554  9.612
[5031]  9.670  9.728  9.786  9.843  9.901  9.959 10.013 10.066 10.120 10.173
[5041] 10.227 10.281 10.334 10.388 10.441 10.495 10.517 10.539 10.561 10.583
[5051] 10.605 10.628 10.650 10.672 10.694 10.716 10.716 10.716 10.716 10.716
[5061] 10.716 10.716 10.716 10.716 10.716 10.716 10.716 10.716  0.840  0.889
[5071]  0.938  0.987  1.036  1.085  1.134  1.183  1.232  1.281  1.330  1.383
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[5081]  1.436  1.489  1.542  1.595  1.648  1.701  1.754  1.807  1.860  1.912
[5091]  1.964  2.016  2.068  2.120  2.172  2.224  2.276  2.328  2.380  2.426
[5101]  2.472  2.518  2.564  2.610  5.410  5.465  5.520  5.628  5.736  5.844
[5111]  5.952  6.060  6.168  6.276  6.384  6.492  6.600  6.724  6.848  6.972
[5121]  7.096  7.220  7.344  7.468  7.592  7.716  7.840  7.965  8.090  8.215
[5131]  8.340  8.465  8.590  8.715  8.840  8.965  9.090  9.209  9.328  9.447
[5141]  9.566  9.685  9.804  9.923 10.042 10.161 10.280 10.347 10.414 10.481
[5151] 10.548 10.615 10.682 10.749 10.816 10.883 10.950 10.950 10.950 10.950
[5161] 10.950 10.950 10.950 10.950 10.950 10.950 10.950 10.950 10.950  1.657
[5171]  1.715  1.774  1.832  1.891  1.949  2.007  2.066  2.124  2.183  2.241
[5181]  2.267  2.293  2.320  2.346  2.372  2.398  2.424  2.451  2.477  2.503
[5191]  2.509  2.515  2.521  2.527  2.532  2.538  2.544  2.550  2.556  2.562
[5201]  2.596  2.630  5.414  5.513  5.612  5.711  5.810  5.954  6.098  6.242
[5211]  6.386  6.530  6.674  6.818  6.962  7.106  7.250  7.336  7.422  7.508
[5221]  7.594  7.680  7.766  7.852  7.938  8.024  8.110  8.167  8.224  8.281
[5231]  8.338  8.395  8.452  8.509  8.566  8.623  8.680  8.720  8.760  8.800
[5241]  8.840  8.880  8.920  8.960  9.000  9.040  9.080  9.080  9.080  9.080
[5251]  9.080  9.080  9.080  9.080  9.080  9.080  9.080  9.080  9.080  0.970
[5261]  0.986  1.002  1.018  1.034  1.050  1.066  1.082  1.098  1.114  1.130
[5271]  1.171  1.212  1.253  1.294  1.335  1.376  1.417  1.458  1.499  1.540
[5281]  1.604  1.668  1.732  1.796  1.860  1.924  1.988  2.052  2.116  2.180
[5291]  2.250  2.320  2.390  2.460  2.530  2.600  5.478  5.566  5.654  5.742
[5301]  5.830  5.922  6.014  6.106  6.198  6.290  6.382  6.474  6.566  6.658
[5311]  6.750  6.938  7.126  7.314  7.502  7.690  7.878  8.066  8.254  8.442
[5321]  8.630  8.781  8.932  9.083  9.234  9.385  9.536  9.687  9.838  9.989
[5331] 10.140 10.230 10.320 10.410 10.500 10.590 10.680 10.770 10.860 10.950
[5341] 11.040 11.120 11.200 11.280 11.360 11.440 11.520 11.600 11.680 11.760
[5351] 11.840 11.925 12.010 12.095 12.180 12.265 12.350 12.435 12.520 12.605
[5361] 12.690 12.736 12.782 12.828 12.874 12.920 12.966 13.012 13.058 13.104
[5371] 13.150 13.150 13.150 13.150 13.150 13.150 13.150 13.150 13.150 13.150
[5381] 13.150 13.150 13.150  1.319  1.428  1.537  1.646  1.755  1.864  1.973
[5391]  2.082  2.191  2.300  2.409  2.511  2.614  5.556  5.752  5.948  6.144
[5401]  6.339  6.535  6.684  6.832  6.981  7.129  7.278  7.427  7.575  7.724
[5411]  7.872  8.021  8.137  8.252  8.368  8.483  8.599  8.714  8.830  8.946
[5421]  9.061  9.177  9.177  9.177  9.177  9.177  9.177  9.177  9.177  9.177
[5431]  9.177  9.177  9.177  9.177  9.974 10.071 10.168 10.265 10.362 10.459
[5441] 10.556 10.653 10.751 10.848 10.945 11.025 11.105 11.186 11.266 11.346
[5451] 11.427 11.507 11.587 11.668 11.748 11.748 11.748 11.748 11.748 11.748
[5461] 11.748 11.748 11.748 11.748 11.748 11.748 11.748  0.450  0.458  0.466
[5471]  0.474  0.482  0.490  0.498  0.506  0.514  0.522  0.530  0.538  0.546
[5481]  0.554  0.562  0.570  0.578  0.586  0.594  0.602  0.610  0.617  0.624
[5491]  0.631  0.638  0.645  0.652  0.659  0.666  0.673  0.680  0.688  0.696
[5501]  0.704  0.712  0.720  0.728  0.736  0.744  0.752  0.760  0.803  0.846
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[5511]  0.889  0.932  0.975  1.018  1.061  1.104  1.147  1.190  1.258  1.326
[5521]  1.394  1.462  1.530  1.598  1.666  1.734  1.802  1.870  1.965  2.060
[5531]  2.155  2.250  2.345  2.440  2.535  2.630  5.416  5.499  5.582  5.665
[5541]  5.748  5.831  5.914  5.997  6.080  6.118  6.156  6.194  6.232  6.270
[5551]  6.308  6.346  6.384  6.422  6.460  6.460  6.460  6.460  6.460  6.460
[5561]  6.460  6.460  6.460  6.460  6.460  6.460  6.460  9.941  9.964  9.987
[5571] 10.009 10.032 10.055 10.078 10.101 10.123 10.146 10.169 10.176 10.184
[5581] 10.191 10.198 10.206 10.213 10.220 10.228 10.235 10.242 10.242 10.242
[5591] 10.242 10.242 10.242 10.242 10.242 10.242 10.242 10.242 10.242 10.242
[5601]  1.205  1.236  1.267  1.298  1.329  1.360  1.390  1.421  1.452  1.483
[5611]  1.514  1.563  1.613  1.662  1.712  1.761  1.810  1.860  1.909  1.959
[5621]  2.008  2.087  2.166  2.246  2.325  2.404  2.483  2.562  2.641  5.423
[5631]  5.523  5.523  5.523  5.523  5.523  5.523  5.523  5.523  5.523  5.523
[5641]  5.523  5.523  5.523  9.974  9.999 10.024 10.048 10.073 10.098 10.122
[5651] 10.147 10.171 10.196 10.221 10.300 10.380 10.459 10.539 10.618 10.698
[5661] 10.777 10.856 10.936 11.015 11.015 11.015 11.015 11.015 11.015 11.015
[5671] 11.015 11.015 11.015 11.015 11.015 11.015  1.627  1.688  1.748  1.809
[5681]  1.870  1.931  1.992  2.053  2.113  2.174  2.235  2.282  2.329  2.376
[5691]  2.424  2.471  2.518  2.565  2.612  5.416  5.543  5.669  5.796  5.922
[5701]  6.049  6.167  6.284  6.402  6.520  6.637  6.755  6.873  6.990  7.108
[5711]  7.226  7.297  7.368  7.440  7.511  7.582  7.653  7.725  7.796  7.867
[5721]  7.939  8.017  8.096  8.175  8.253  8.332  8.411  8.489  8.568  8.647
[5731]  8.725  8.725  8.725  8.725  8.725  8.725  8.725  8.725  8.725  8.725
[5741]  8.725  8.725  8.725  2.187  2.228  2.270  2.311  2.352  2.394  2.435
[5751]  2.476  2.517  2.559  2.600  5.453  5.579  5.706  5.832  5.958  6.084
[5761]  6.210  6.337  6.463  6.589  6.589  6.589  6.589  6.589  6.589  6.589
[5771]  6.589  6.589  6.589  6.589  6.589  6.589  0.452  0.480  0.507  0.535
[5781]  0.563  0.590  0.618  0.646  0.674  0.701  0.729  0.771  0.813  0.855
[5791]  0.897  0.939  0.981  1.023  1.065  1.107  1.149  1.250  1.350  1.451
[5801]  1.551  1.652  1.753  1.853  1.954  2.054  2.155  2.232  2.310  2.387
[5811]  2.465  2.542  2.619  5.576  5.576  5.576  5.576  5.576  5.576  5.576
[5821]  5.576  5.576  5.576  5.576  5.576  5.576  0.678  0.762  0.847  0.931
[5831]  1.016  1.100  1.185  1.269  1.354  1.438  1.523  1.699  1.875  2.051
[5841]  2.227  2.403  2.579  5.553  5.707  5.860  6.013  6.167  6.320  6.474
[5851]  6.627  6.772  6.916  7.061  7.206  7.351  7.495  7.640  7.785  7.929
[5861]  8.074  8.074  8.074  8.074  8.074  8.074  8.074  8.074  8.074  8.074
[5871]  8.074  8.074  8.074  9.489  9.560  9.630  9.700  9.770  9.841  9.911
[5881]  9.981 10.051 10.121 10.192 10.331 10.470 10.609 10.748 10.888 11.027
[5891] 11.166 11.305 11.444 11.584 11.584 11.584 11.584 11.584 11.584 11.584
[5901] 11.584 11.584 11.584 11.584 11.584 11.584  0.140  0.145  0.150  0.155
[5911]  0.160  0.165  0.170  0.175  0.180  0.185  0.190  0.195  0.200  0.205
[5921]  0.210  0.215  0.220  0.225  0.230  0.235  0.240  0.246  0.252  0.258
[5931]  0.264  0.270  0.276  0.282  0.288  0.294  0.300  0.305  0.310  0.315
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[5941]  0.320  0.325  0.330  0.335  0.340  0.345  0.350  0.357  0.364  0.371
[5951]  0.378  0.385  0.392  0.399  0.406  0.413  0.420  0.433  0.446  0.459
[5961]  0.472  0.485  0.498  0.511  0.524  0.537  0.550  0.570  0.590  0.610
[5971]  0.630  0.650  0.670  0.690  0.710  0.730  0.750  0.771  0.792  0.813
[5981]  0.834  0.855  0.876  0.897  0.918  0.939  0.960  1.007  1.054  1.101
[5991]  1.148  1.195  1.242  1.289  1.336  1.383  1.430  1.442  1.454  1.466
[6001]  1.478  1.490  1.502  1.514  1.526  1.538  1.550  1.607  1.664  1.721
[6011]  1.778  1.835  1.892  1.949  2.006  2.063  2.120  2.212  2.304  2.396
[6021]  2.488  2.580  0.400  0.400  0.400  0.400  0.400  0.400  0.400  0.400
[6031]  0.400  0.400  0.400  0.400  0.400  0.400  0.400  0.400  0.400  0.400
[6041]  0.400  0.400  0.400  0.400  0.400  0.400  0.400  0.400  0.400  0.400
[6051]  0.400  0.400  0.400  0.400  0.400  0.400  0.400  0.400  0.400  0.400
[6061]  0.400  0.400  0.400  0.400  0.400  0.400  0.400  0.400  0.400  0.400
[6071]  0.400  0.400  0.400  0.449  0.498  0.547  0.596  0.645  0.694  0.743
[6081]  0.792  0.841  0.890  0.915  0.940  0.965  0.990  1.015  1.040  1.065
[6091]  1.090  1.115  1.140  1.239  1.338  1.437  1.536  1.635  1.733  1.832
[6101]  1.931  2.030  2.129  2.223  2.317  2.411  2.505  2.599  0.200  0.204
[6111]  0.208  0.212  0.216  0.220  0.224  0.228  0.232  0.236  0.240  0.253
[6121]  0.266  0.279  0.292  0.305  0.318  0.331  0.344  0.357  0.370  0.389
[6131]  0.408  0.427  0.446  0.465  0.484  0.503  0.522  0.541  0.560  0.596
[6141]  0.632  0.668  0.704  0.740  0.776  0.812  0.848  0.884  0.920  0.979
[6151]  1.038  1.097  1.156  1.215  1.274  1.333  1.392  1.451  1.510  1.593
[6161]  1.676  1.759  1.842  1.925  2.008  2.091  2.174  2.257  2.340  2.483
[6171]  2.626  5.471  5.660  5.817  5.974  6.131  6.288  6.445  6.602  6.759
[6181]  6.916  7.073  7.230  7.402  7.574  7.746  7.918  8.090  8.262  8.434
[6191]  8.606  8.778  8.950  9.018  9.086  9.154  9.222  9.290  9.358  9.426
[6201]  9.494  9.562  9.630  9.630  9.630  9.630  9.630  9.630  9.630  9.630
[6211]  9.630  9.630  9.630  9.630  9.630  0.080  0.082  0.084  0.086  0.088
[6221]  0.090  0.092  0.094  0.096  0.098  0.100  0.101  0.102  0.103  0.104
[6231]  0.105  0.106  0.107  0.108  0.109  0.110  0.111  0.112  0.113  0.114
[6241]  0.115  0.116  0.117  0.118  0.119  0.120  0.122  0.124  0.126  0.128
[6251]  0.130  0.132  0.134  0.136  0.138  0.140  0.141  0.142  0.143  0.144
[6261]  0.145  0.146  0.147  0.148  0.149  0.150  0.157  0.164  0.171  0.178
[6271]  0.185  0.192  0.199  0.206  0.213  0.220  0.229  0.238  0.247  0.256
[6281]  0.265  0.274  0.283  0.292  0.301  0.310  0.350  0.390  0.430  0.470
[6291]  0.510  0.550  0.590  0.630  0.670  0.710  0.735  0.760  0.785  0.810
[6301]  0.835  0.860  0.885  0.910  0.935  0.960  0.982  1.004  1.026  1.048
[6311]  1.070  1.092  1.114  1.136  1.158  1.180  1.213  1.246  1.279  1.312
[6321]  1.345  1.378  1.411  1.444  1.477  1.510  1.510  1.510  1.510  1.510
[6331]  1.510  1.510  1.510  1.510  1.510  1.510  1.510  1.510  1.458  1.466
[6341]  1.475  1.483  1.492  1.500  1.509  1.517  1.526  1.534  1.543  1.559
[6351]  1.575  1.591  1.607  1.622  1.638  1.654  1.670  1.686  1.702  1.738
[6361]  1.773  1.808  1.844  1.880  1.915  1.950  1.986  2.022  2.057  2.110
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[6371]  2.163  2.215  2.268  2.321  2.374  2.427  2.479  2.532  2.585  1.226
[6381]  1.239  1.251  1.264  1.277  1.290  1.303  1.316  1.329  1.342  1.354
[6391]  1.372  1.390  1.408  1.426  1.444  1.462  1.479  1.497  1.515  1.533
[6401]  1.569  1.605  1.641  1.677  1.713  1.749  1.785  1.821  1.857  1.893
[6411]  1.928  1.962  1.997  2.032  2.066  2.101  2.136  2.170  2.205  2.240
[6421]  2.262  2.285  2.308  2.330  2.353  2.376  2.398  2.421  2.444  2.466
[6431]  2.517  2.568  2.619  5.459  5.569  5.679  5.789  5.898  6.008  6.118
[6441]  6.227  6.337  6.447  6.556  6.624  6.692  6.759  6.827  6.894  6.962
[6451]  7.030  7.097  7.165  7.232  7.292  7.352  7.411  7.471  7.530  7.590
[6461]  7.650  7.709  7.769  7.828  7.828  7.828  7.828  7.828  7.828  7.828
[6471]  7.828  7.828  7.828  7.828  7.828  7.828  0.560  0.578  0.596  0.614
[6481]  0.632  0.650  0.668  0.686  0.704  0.722  0.740  0.757  0.774  0.791
[6491]  0.808  0.825  0.842  0.859  0.876  0.893  0.910  0.928  0.946  0.964
[6501]  0.982  1.000  1.018  1.036  1.054  1.072  1.090  1.107  1.124  1.141
[6511]  1.158  1.175  1.192  1.209  1.226  1.243  1.260  1.270  1.280  1.290
[6521]  1.300  1.310  1.320  1.330  1.340  1.350  1.360  1.376  1.392  1.408
[6531]  1.424  1.440  1.456  1.472  1.488  1.504  1.520  1.560  1.600  1.640
[6541]  1.680  1.720  1.760  1.800  1.840  1.880  1.920  1.982  2.044  2.106
[6551]  2.168  2.230  2.292  2.354  2.416  2.478  2.540  2.628  5.520  5.660
[6561]  5.800  5.940  6.080  6.220  6.360  6.500  6.640  6.780  6.920  7.031
[6571]  7.142  7.253  7.364  7.475  7.586  7.697  7.808  7.919  8.030  8.075
[6581]  8.120  8.165  8.210  8.255  8.300  8.345  8.390  8.435  8.480  8.480
[6591]  8.480  8.480  8.480  8.480  8.480  8.480  8.480  8.480  8.480  8.480
[6601]  8.480  9.280  9.318  9.357  9.395  9.433  9.471  9.509  9.548  9.586
[6611]  9.624  9.662  9.695  9.727  9.759  9.792  9.824  9.856  9.889  9.921
[6621]  9.953  9.986  9.986  9.986  9.986  9.986  9.986  9.986  9.986  9.986
[6631]  9.986  9.986  9.986  9.986  0.050  0.051  0.052  0.053  0.054  0.055
[6641]  0.056  0.057  0.058  0.059  0.060  0.062  0.064  0.066  0.068  0.070
[6651]  0.072  0.074  0.076  0.078  0.080  0.082  0.084  0.086  0.088  0.090
[6661]  0.092  0.094  0.096  0.098  0.100  0.105  0.110  0.115  0.120  0.125
[6671]  0.130  0.135  0.140  0.145  0.150  0.156  0.162  0.168  0.174  0.180
[6681]  0.186  0.192  0.198  0.204  0.210  0.213  0.216  0.219  0.222  0.225
[6691]  0.228  0.231  0.234  0.237  0.240  0.248  0.256  0.264  0.272  0.280
[6701]  0.288  0.296  0.304  0.312  0.320  0.328  0.336  0.344  0.352  0.360
[6711]  0.368  0.376  0.384  0.392  0.400  0.423  0.446  0.469  0.492  0.515
[6721]  0.538  0.561  0.584  0.607  0.630  0.670  0.710  0.750  0.790  0.830
[6731]  0.870  0.910  0.950  0.990  1.030  1.085  1.140  1.195  1.250  1.305
[6741]  1.360  1.415  1.470  1.525  1.580  1.677  1.774  1.871  1.968  2.065
[6751]  2.162  2.259  2.356  2.453  2.550  0.120  0.122  0.124  0.126  0.128
[6761]  0.130  0.132  0.134  0.136  0.138  0.140  0.141  0.142  0.143  0.144
[6771]  0.145  0.146  0.147  0.148  0.149  0.150  0.152  0.154  0.156  0.158
[6781]  0.160  0.162  0.164  0.166  0.168  0.170  0.172  0.174  0.176  0.178
[6791]  0.180  0.182  0.184  0.186  0.188  0.190  0.195  0.200  0.205  0.210
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[6801]  0.215  0.220  0.225  0.230  0.235  0.240  0.261  0.282  0.303  0.324
[6811]  0.345  0.366  0.387  0.408  0.429  0.450  0.485  0.520  0.555  0.590
[6821]  0.625  0.660  0.695  0.730  0.765  0.800  0.825  0.850  0.875  0.900
[6831]  0.925  0.950  0.975  1.000  1.025  1.050  1.148  1.246  1.344  1.442
[6841]  1.540  1.638  1.736  1.834  1.932  2.030  2.066  2.102  2.138  2.174
[6851]  2.210  2.246  2.282  2.318  2.354  2.390  2.419  2.448  2.477  2.506
[6861]  2.535  2.564  2.593  2.622  2.490  2.554  2.618  5.419  5.536  5.653
[6871]  5.770  5.887  6.004  6.121  6.238  6.355  6.309  6.263  6.216  6.170
[6881]  6.124  6.078  6.032  5.986  5.939  5.893  5.916  5.940  5.963  5.986
[6891]  6.010  6.033  6.056  6.080  6.103  6.126  6.126  6.126  6.126  6.126
[6901]  6.126  6.126  6.126  6.126  6.126  6.126  6.126  6.126  0.274  0.291
[6911]  0.307  0.323  0.340  0.356  0.373  0.389  0.405  0.422  0.438  0.479
[6921]  0.519  0.560  0.600  0.641  0.681  0.722  0.763  0.803  0.844  0.922
[6931]  1.000  1.077  1.155  1.233  1.311  1.389  1.467  1.545  1.623  1.779
[6941]  1.935  2.091  2.248  2.404  2.560  2.000  2.000  2.000  2.000  2.000
[6951]  2.000  2.000  2.000  2.000  2.000  2.000  2.050  2.100  2.150  2.200
[6961]  2.250  2.300  2.350  2.400  2.450  2.500  2.550  2.600  2.650  5.420
[6971]  5.438  5.456  5.474  5.492  5.510  5.528  5.546  5.564  5.582  5.600
[6981]  5.622  5.644  5.666  5.688  5.710  5.732  5.754  5.776  5.798  5.820
[6991]  5.847  5.874  5.901  5.928  5.955  5.982  6.009  6.036  6.063  6.090
[7001]  6.118  6.146  6.174  6.202  6.230  6.258  6.286  6.314  6.342  6.370
[7011]  6.409  6.448  6.487  6.526  6.565  6.604  6.643  6.682  6.721  6.760
[7021]  6.794  6.828  6.862  6.896  6.930  6.964  6.998  7.032  7.066  7.100
[7031]  7.190  7.280  7.370  7.460  7.550  7.640  7.730  7.820  7.910  8.000
[7041]  8.102  8.204  8.306  8.408  8.510  8.612  8.714  8.816  8.918  9.020
[7051]  9.119  9.218  9.317  9.416  9.515  9.614  9.713  9.812  9.911 10.010
[7061] 10.075 10.140 10.205 10.270 10.335 10.400 10.465 10.530 10.595 10.660
[7071] 10.722 10.784 10.846 10.908 10.970 11.032 11.094 11.156 11.218 11.280
[7081] 11.305 11.330 11.355 11.380 11.405 11.430 11.455 11.480 11.505 11.530
[7091] 11.530 11.530 11.530 11.530 11.530 11.530 11.530 11.530 11.530 11.530
[7101] 11.530 11.530  5.434  5.536  5.638  5.740  5.842  5.944  6.046  6.148
[7111]  6.250  6.325  6.400  6.475  6.550  6.625  6.700  6.775  6.850  6.925
[7121]  7.000  7.052  7.104  7.156  7.208  7.260  7.312  7.364  7.416  7.468
[7131]  7.520  7.574  7.628  7.682  7.736  7.790  7.844  7.898  7.952  8.006
[7141]  8.060  8.098  8.136  8.174  8.212  8.250  8.288  8.326  8.364  8.402
[7151]  8.440  8.469  8.498  8.527  8.556  8.585  8.614  8.643  8.672  8.701
[7161]  8.730  8.752  8.774  8.796  8.818  8.840  8.862  8.884  8.906  8.928
[7171]  8.950  9.014  9.078  9.142  9.206  9.270  9.334  9.398  9.462  9.526
[7181]  9.590  9.675  9.760  9.845  9.930 10.015 10.100 10.185 10.270 10.355
[7191] 10.440 10.498 10.556 10.614 10.672 10.730 10.788 10.846 10.904 10.962
[7201] 11.020 11.130 11.240 11.350 11.460 11.570 11.680 11.790 11.900 12.010
[7211] 12.120 12.141 12.162 12.183 12.204 12.225 12.246 12.267 12.288 12.309
[7221] 12.330 12.330 12.330 12.330 12.330 12.330 12.330 12.330 12.330 12.330
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[7231] 12.330 12.330 12.330  0.540  0.557  0.574  0.591  0.608  0.625  0.642
[7241]  0.659  0.676  0.693  0.710  0.728  0.746  0.764  0.782  0.800  0.818
[7251]  0.836  0.854  0.872  0.890  0.900  0.910  0.920  0.930  0.940  0.950
[7261]  0.960  0.970  0.980  0.990  0.998  1.006  1.014  1.022  1.030  1.038
[7271]  1.046  1.054  1.062  1.070  1.074  1.078  1.082  1.086  1.090  1.094
[7281]  1.098  1.102  1.106  1.110  1.129  1.148  1.167  1.186  1.205  1.224
[7291]  1.243  1.262  1.281  1.300  1.316  1.332  1.348  1.364  1.380  1.396
[7301]  1.412  1.428  1.444  1.460  1.494  1.528  1.562  1.596  1.630  1.664
[7311]  1.698  1.732  1.766  1.800  1.850  1.900  1.950  2.000  2.050  2.100
[7321]  2.150  2.200  2.250  2.300  2.330  2.360  2.390  2.420  2.450  2.480
[7331]  2.510  2.540  2.570  2.600  5.505  5.610  5.715  5.820  5.925  6.030
[7341]  6.135  6.240  6.345  6.450  6.510  6.570  6.630  6.690  6.750  6.810
[7351]  6.870  6.930  6.990  7.050  7.050  7.050  7.050  7.050  7.050  7.050
[7361]  7.050  7.050  7.050  7.050  7.050  7.050  0.020  0.020  0.020  0.020
[7371]  0.020  0.020  0.020  0.020  0.020  0.020  0.020  0.022  0.024  0.026
[7381]  0.028  0.030  0.032  0.034  0.036  0.038  0.040  0.043  0.046  0.049
[7391]  0.052  0.055  0.058  0.061  0.064  0.067  0.070  0.077  0.084  0.091
[7401]  0.098  0.105  0.112  0.119  0.126  0.133  0.140  0.165  0.190  0.215
[7411]  0.240  0.265  0.290  0.315  0.340  0.365  0.390  0.427  0.464  0.501
[7421]  0.538  0.575  0.612  0.649  0.686  0.723  0.760  0.787  0.814  0.841
[7431]  0.868  0.895  0.922  0.949  0.976  1.003  1.030  1.058  1.086  1.114
[7441]  1.142  1.170  1.198  1.226  1.254  1.282  1.310  1.310  1.310  1.310
[7451]  1.310  1.310  1.310  1.310  1.310  1.310  1.310  1.310  1.310  0.010
[7461]  0.013  0.016  0.019  0.022  0.025  0.028  0.031  0.034  0.037  0.040
[7471]  0.057  0.074  0.091  0.108  0.125  0.142  0.159  0.176  0.193  0.210
[7481]  0.227  0.244  0.261  0.278  0.295  0.312  0.329  0.346  0.363  0.380
[7491]  0.448  0.516  0.584  0.652  0.720  0.788  0.856  0.924  0.992  1.060
[7501]  1.084  1.108  1.132  1.156  1.180  1.204  1.228  1.252  1.276  1.300
[7511]  1.317  1.334  1.351  1.368  1.385  1.402  1.419  1.436  1.453  1.470
[7521]  1.595  1.720  1.845  1.970  2.095  2.220  2.345  2.470  2.595  1.655
[7531]  1.854  2.052  2.251  2.449  2.648  5.521  5.719  5.918  6.116  6.315
[7541]  6.513  6.711  6.910  7.108  7.108  7.108  7.108  7.108  7.108  7.108
[7551]  7.108  7.108  7.108  7.108  7.108  7.108  7.108  7.108  7.108  7.108
[7561]  7.108  7.108  7.108  7.108  7.108  7.108  7.108  7.108  7.108  7.108
[7571]  7.108  7.108  7.108  7.108  7.108  7.108  7.108  7.108  7.108  7.108
[7581]  7.108  7.108  7.108  7.108  7.108  7.108  5.695  5.683  5.671  5.659
[7591]  5.647  5.636  5.624  5.612  5.600  5.588  5.577  5.587  5.597  5.608
[7601]  5.618  5.628  5.639  5.649  5.659  5.670  5.680  5.678  5.676  5.674
[7611]  5.672  5.670  5.668  5.666  5.664  5.662  5.660  5.665  5.670  5.675
[7621]  5.680  5.685  5.690  5.695  5.700  5.705  5.710  5.716  5.722  5.728
[7631]  5.734  5.740  5.746  5.752  5.758  5.764  5.770  5.791  5.812  5.833
[7641]  5.854  5.875  5.896  5.917  5.938  5.959  5.980  6.008  6.036  6.064
[7651]  6.092  6.120  6.148  6.176  6.204  6.232  6.260  6.282  6.304  6.326
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[7661]  6.348  6.370  6.392  6.414  6.436  6.458  6.480  6.527  6.574  6.621
[7671]  6.668  6.715  6.762  6.809  6.856  6.903  6.950  7.010  7.070  7.130
[7681]  7.190  7.250  7.310  7.370  7.430  7.490  7.550  7.678  7.806  7.934
[7691]  8.062  8.190  8.318  8.446  8.574  8.702  8.830  8.951  9.072  9.193
[7701]  9.314  9.435  9.556  9.677  9.798  9.919 10.040 10.166 10.292 10.418
[7711] 10.544 10.670 10.796 10.922 11.048 11.174 11.300 11.380 11.460 11.540
[7721] 11.620 11.700 11.780 11.860 11.940 12.020 12.100 12.131 12.162 12.193
[7731] 12.224 12.255 12.286 12.317 12.348 12.379 12.410 12.429 12.448 12.467
[7741] 12.486 12.505 12.524 12.543 12.562 12.581 12.600 12.600 12.600 12.600
[7751] 12.600 12.600 12.600 12.600 12.600 12.600 12.600 12.600 12.600  1.170
[7761]  1.196  1.222  1.248  1.274  1.300  1.326  1.352  1.378  1.404  1.430
[7771]  1.459  1.488  1.517  1.546  1.575  1.604  1.633  1.662  1.691  1.720
[7781]  1.786  1.852  1.918  1.984  2.050  2.116  2.182  2.248  2.314  2.380
[7791]  2.467  2.554  2.641  5.445  5.620  5.795  5.970  5.970  5.970  5.970
[7801]  5.970  5.970  5.970  5.970  5.970  5.970  5.970  5.970  5.970  1.790
[7811]  1.815  1.840  1.865  1.890  1.915  1.940  1.965  1.990  2.015  2.040
[7821]  2.072  2.104  2.136  2.168  2.200  2.232  2.264  2.296  2.328  2.360
[7831]  2.415  2.470  2.525  2.580  2.635  5.528  5.696  5.864  6.032  6.200
[7841]  6.368  6.536  6.704  6.872  7.040  7.134  7.228  7.322  7.416  7.510
[7851]  7.604  7.698  7.792  7.886  7.980  8.045  8.110  8.175  8.240  8.305
[7861]  8.370  8.435  8.500  8.565  8.630  8.673  8.716  8.759  8.802  8.845
[7871]  8.888  8.931  8.974  9.017  9.060  9.060  9.060  9.060  9.060  9.060
[7881]  9.060  9.060  9.060  9.060  9.060  9.060  9.060  0.630  0.645  0.660
[7891]  0.675  0.690  0.705  0.720  0.735  0.750  0.765  0.780  0.795  0.810
[7901]  0.825  0.840  0.855  0.870  0.885  0.900  0.915  0.930  0.947  0.964
[7911]  0.981  0.998  1.015  1.032  1.049  1.066  1.083  1.100  1.127  1.154
[7921]  1.181  1.208  1.235  1.262  1.289  1.316  1.343  1.370  1.414  1.458
[7931]  1.502  1.546  1.590  1.634  1.678  1.722  1.766  1.810  1.873  1.936
[7941]  1.999  2.062  2.125  2.188  2.251  2.314  2.377  2.440  2.492  2.544
[7951]  2.596  2.648  5.472  5.548  5.624  5.700  5.776  5.852  5.928  6.004
[7961]  6.080  6.139  6.198  6.257  6.316  6.375  6.434  6.493  6.552  6.611
[7971]  6.670  6.710  6.750  6.790  6.830  6.870  6.910  6.950  6.990  7.030
[7981]  7.070  7.070  7.070  7.070  7.070  7.070  7.070  7.070  7.070  7.070
[7991]  7.070  7.070  7.070  0.280  0.287  0.294  0.301  0.308  0.315  0.322
[8001]  0.329  0.336  0.343  0.350  0.357  0.364  0.371  0.378  0.385  0.392
[8011]  0.399  0.406  0.413  0.420  0.426  0.432  0.438  0.444  0.450  0.456
[8021]  0.462  0.468  0.474  0.480  0.495  0.510  0.525  0.540  0.555  0.570
[8031]  0.585  0.600  0.615  0.630  0.683  0.736  0.789  0.842  0.895  0.948
[8041]  1.001  1.054  1.107  1.160  1.214  1.268  1.322  1.376  1.430  1.484
[8051]  1.538  1.592  1.646  1.700  1.719  1.738  1.757  1.776  1.795  1.814
[8061]  1.833  1.852  1.871  1.890  1.959  2.028  2.097  2.166  2.235  2.304
[8071]  2.373  2.442  2.511  2.580  2.634  5.496  5.643  5.790  5.933  6.076
[8081]  6.219  6.362  6.505  6.648  6.791  6.934  7.077  7.220  7.332  7.444
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[8091]  7.556  7.668  7.780  7.892  8.004  8.116  8.228  8.340  8.393  8.446
[8101]  8.499  8.552  8.605  8.658  8.711  8.764  8.817  8.870  8.870  8.870
[8111]  8.870  8.870  8.870  8.870  8.870  8.870  8.870  8.870  8.870  8.870
[8121]  0.230  0.236  0.242  0.248  0.254  0.260  0.266  0.272  0.278  0.284
[8131]  0.290  0.346  0.402  0.458  0.514  0.570  0.626  0.682  0.738  0.794
[8141]  0.850  0.901  0.952  1.003  1.054  1.105  1.156  1.207  1.258  1.309
[8151]  1.360  1.426  1.492  1.558  1.624  1.690  1.756  1.822  1.888  1.954
[8161]  2.020  2.092  2.164  2.236  2.308  2.380  2.452  2.524  2.596  5.418
[8171]  5.542  5.666  5.790  5.909  6.028  6.147  6.266  6.385  6.504  6.623
[8181]  6.742  6.861  6.980  7.078  7.176  7.274  7.372  7.470  7.568  7.666
[8191]  7.764  7.862  7.960  7.988  8.016  8.044  8.072  8.100  8.128  8.156
[8201]  8.184  8.212  8.240  8.240  8.240  8.240  8.240  8.240  8.240  8.240
[8211]  8.240  8.240  8.240  8.240  8.240  2.351  2.366  2.380  2.395  2.409
[8221]  2.423  2.438  2.452  2.467  2.481  2.496  2.540  2.584  2.629  5.480
[8231]  5.617  5.755  5.892  6.030  6.168  6.305  6.443  6.580  6.718  6.802
[8241]  6.887  6.971  7.056  7.140  7.225  7.309  7.393  7.478  7.562  7.687
[8251]  7.812  7.936  8.061  8.185  8.310  8.435  8.559  8.684  8.808  8.897
[8261]  8.986  9.075  9.164  9.252  9.341  9.430  9.519  9.608  9.696  9.696
[8271]  9.696  9.696  9.696  9.696  9.696  9.696  9.696  9.696  9.696  9.696
[8281]  9.696  0.460  0.486  0.512  0.538  0.564  0.590  0.616  0.642  0.668
[8291]  0.694  0.720  0.751  0.782  0.813  0.844  0.875  0.906  0.937  0.968
[8301]  0.999  1.030  1.065  1.100  1.135  1.170  1.205  1.240  1.275  1.310
[8311]  1.345  1.380  1.402  1.424  1.446  1.468  1.490  1.512  1.534  1.556
[8321]  1.578  1.600  1.620  1.640  1.660  1.680  1.700  1.720  1.740  1.760
[8331]  1.780  1.800  1.815  1.830  1.845  1.860  1.875  1.890  1.905  1.920
[8341]  1.935  1.950  1.968  1.986  2.004  2.022  2.040  2.058  2.076  2.094
[8351]  2.112  2.130  2.167  2.204  2.241  2.278  2.315  2.352  2.389  2.426
[8361]  2.463  2.500  2.572  2.644  5.522  5.670  5.701  5.732  5.763  5.794
[8371]  5.825  5.856  5.887  5.918  5.949  5.980  6.116  6.252  6.388  6.524
[8381]  6.660  6.796  6.932  7.068  7.204  7.340  7.388  7.436  7.484  7.532
[8391]  7.580  7.628  7.676  7.724  7.772  7.820  7.820  7.820  7.820  7.820
[8401]  7.820  7.820  7.820  7.820  7.820  7.820  7.820  7.820  0.837  0.889
[8411]  0.941  0.993  1.046  1.098  1.150  1.203  1.255  1.307  1.359  1.438
[8421]  1.517  1.597  1.676  1.755  1.834  1.913  1.992  2.071  2.150  2.258
[8431]  2.365  2.473  2.580  5.456  5.588  5.714  5.840  5.965  6.091  6.217
[8441]  6.342  6.468  6.594  6.719  6.845  6.872  6.899  6.926  6.953  6.980
[8451]  7.007  7.034  7.060  7.087  7.114  7.218  7.321  7.424  7.527  7.631
[8461]  7.734  7.837  7.941  8.044  8.147  8.243  8.338  8.434  8.530  8.625
[8471]  8.721  8.817  8.912  9.008  9.104  9.172  9.241  9.309  9.377  9.446
[8481]  9.514  9.583  9.651  9.719  9.788  9.845  9.902  9.959 10.015 10.072
[8491] 10.129 10.186 10.243 10.300 10.357 10.357 10.357 10.357 10.357 10.357
[8501] 10.357 10.357 10.357 10.357 10.357 10.357 10.357  0.900  0.910  0.920
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[8541]  1.230  1.240  1.250  1.260  1.270  1.280  1.290  1.300  1.361  1.422
[8551]  1.483  1.544  1.605  1.666  1.727  1.788  1.849  1.910  1.970  2.030
[8561]  2.090  2.150  2.210  2.270  2.330  2.390  2.450  2.510  5.493  5.654
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[8611]  9.620  9.578  9.536  9.494  9.452  9.410  9.430  9.450  9.470  9.490
[8621]  9.510  9.530  9.550  9.570  9.590  9.610  9.610  9.610  9.610  9.610
[8631]  9.610  9.610  9.610  9.610  9.610  9.610  9.610  9.610  0.286  0.326
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[8661]  1.119  1.168  1.216  1.264  1.312  1.360  1.408  1.457  1.505  1.557
[8671]  1.609  1.661  1.712  1.764  1.816  1.868  1.920  1.972  2.024  2.099
[8681]  2.174  2.249  2.324  2.399  2.474  2.549  2.624  5.450  5.604  5.757
[8691]  5.911  6.025  6.140  6.255  6.369  6.483  6.598  6.713  6.827  6.941
[8701]  7.056  7.198  7.340  7.482  7.624  7.766  7.907  8.049  8.191  8.333
[8711]  8.475  8.475  8.475  8.475  8.475  8.475  8.475  8.475  8.475  8.475
[8721]  8.475  8.475  8.475  0.140  0.142  0.144  0.146  0.148  0.150  0.152
[8731]  0.154  0.156  0.158  0.160  0.162  0.164  0.166  0.168  0.170  0.172
[8741]  0.174  0.176  0.178  0.180  0.182  0.184  0.186  0.188  0.190  0.192
[8751]  0.194  0.196  0.198  0.200  0.202  0.204  0.206  0.208  0.210  0.212
[8761]  0.214  0.216  0.218  0.220  0.237  0.254  0.271  0.288  0.305  0.322
[8771]  0.339  0.356  0.373  0.390  0.412  0.434  0.456  0.478  0.500  0.522
[8781]  0.544  0.566  0.588  0.610  0.675  0.740  0.805  0.870  0.935  1.000
[8791]  1.065  1.130  1.195  1.260  1.328  1.396  1.464  1.532  1.600  1.668
[8801]  1.736  1.804  1.872  1.940  2.003  2.066  2.129  2.192  2.255  2.318
[8811]  2.381  2.444  2.507  2.570  2.612  5.525  5.709  5.893  6.077  6.262
[8821]  6.446  6.630  6.814  6.998  7.089  7.181  7.272  7.364  7.455  7.546
[8831]  7.638  7.729  7.821  7.912  7.982  8.053  8.123  8.193  8.263  8.333
[8841]  8.404  8.474  8.544  8.614  8.688  8.762  8.836  8.910  8.984  9.058
[8851]  9.132  9.206  9.280  9.354  9.287  9.220  9.153  9.087  9.020  8.953
[8861]  8.886  8.819  8.752  8.685  8.719  8.753  8.787  8.822  8.856  8.890
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[8891] 10.237 10.293 10.349 10.405 10.405 10.405 10.405 10.405 10.405 10.405
[8901] 10.405 10.405 10.405 10.405 10.405 10.405  0.270  0.271  0.272  0.273
[8911]  0.274  0.275  0.276  0.277  0.278  0.279  0.280  0.279  0.278  0.277
[8921]  0.276  0.275  0.274  0.273  0.272  0.271  0.270  0.268  0.266  0.264
[8931]  0.262  0.260  0.258  0.256  0.254  0.252  0.250  0.251  0.252  0.253
[8941]  0.254  0.255  0.256  0.257  0.258  0.259  0.260  0.272  0.284  0.296
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[8961]  0.548  0.590  0.632  0.674  0.716  0.758  0.800  0.835  0.870  0.905
[8971]  0.940  0.975  1.010  1.045  1.080  1.115  1.150  1.236  1.322  1.408
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[9011]  0.604  0.623  0.641  0.660  0.678  0.704  0.730  0.756  0.782  0.807
[9021]  0.833  0.859  0.885  0.911  0.937  0.959  0.981  1.003  1.026  1.048
[9031]  1.070  1.092  1.114  1.137  1.159  1.184  1.208  1.233  1.258  1.283
[9041]  1.308  1.333  1.357  1.382  1.407  1.443  1.479  1.515  1.550  1.586
[9051]  1.622  1.658  1.694  1.730  1.766  1.810  1.854  1.899  1.943  1.988
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[9071]  2.552  2.609  5.508  5.663  5.653  5.643  5.633  5.623  5.613  5.603
[9081]  5.593  5.583  5.573  5.563  5.675  5.787  5.899  6.011  6.123  6.235
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[9121] 10.530 10.530 10.530 10.530 10.530 10.530 10.612 10.669 10.725 10.782
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[9141] 11.176 11.176 11.176 11.176 11.176 11.176 11.176 11.176 11.176  0.192
[9151]  0.196  0.199  0.202  0.205  0.209  0.212  0.215  0.218  0.222  0.225
[9161]  0.258  0.290  0.323  0.356  0.388  0.421  0.454  0.486  0.519  0.552
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[9191]  1.372  1.401  1.431  1.460  1.489  1.519  1.548  1.578  1.607  1.636
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[9211]  1.636  1.636  1.100  1.102  1.104  1.106  1.108  1.110  1.112  1.114
[9221]  1.116  1.118  1.120  1.152  1.184  1.216  1.248  1.280  1.312  1.344
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[9241]  1.792  1.836  1.880  1.928  1.976  2.024  2.072  2.120  2.168  2.216
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[9271]  7.118  7.279  7.440  7.484  7.528  7.572  7.616  7.660  7.704  7.748
[9281]  7.792  7.836  7.880  7.880  7.880  7.880  7.880  7.880  7.880  7.880
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[9301]  1.135  1.140  1.145  1.150  1.155  1.160  1.165  1.170  1.175  1.180
[9311]  1.185  1.190  1.195  1.200  1.205  1.210  1.215  1.220  1.225  1.230
[9321]  1.235  1.240  1.245  1.250  1.255  1.260  1.265  1.270  1.275  1.280
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[9361]  1.965  2.034  2.103  2.172  2.241  2.310  2.389  2.468  2.547  2.626
[9371]  5.464  5.658  5.852  6.046  6.240  6.482  6.724  6.966  7.208  7.450
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[9421] 13.000 13.000 13.000 13.000 13.000 13.000 13.000  1.506  1.559  1.613
[9431]  1.666  1.720  1.773  1.826  1.880  1.933  1.987  2.040  2.099  2.159
[9441]  2.218  2.278  2.337  2.396  2.456  2.515  2.575  2.634  5.430  5.495
[9451]  5.560  5.645  5.730  5.815  5.900  5.985  6.070  6.155  6.240  6.325
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[9471]  7.340  7.451  7.562  7.673  7.784  7.895  8.006  8.117  8.228  8.339
[9481]  8.450  8.555  8.660  8.765  8.870  8.975  9.080  9.185  9.290  9.395
[9491]  9.500  9.576  9.652  9.728  9.804  9.880  9.956 10.032 10.108 10.184
[9501] 10.260 10.260 10.260 10.260 10.260 10.260 10.260 10.260 10.260 10.260
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[9531]  1.514  1.555  1.597  1.638  1.676  1.713  1.751  1.788  1.826  1.863
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[9551]  2.406  2.463  2.519  2.575  2.629  5.422  5.615  5.605  5.595  5.585
[9561]  5.575  5.566  5.556  5.546  5.536  5.526  5.516  5.595  5.674  5.753
[9571]  5.832  5.911  5.990  6.069  6.148  6.227  6.306  6.370  6.433  6.497
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 [9971]  9.490  9.472  9.455  9.438  9.421  9.404  9.387  9.370  9.352  9.352
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[10011]  2.011  2.010  2.016  2.022  2.029  2.035  2.041  2.048  2.054  2.060
[10021]  2.066  2.073  2.148  2.223  2.298  2.373  2.448  2.524  2.599  0.170
[10031]  0.175  0.180  0.185  0.190  0.195  0.200  0.205  0.210  0.215  0.220
[10041]  0.224  0.228  0.232  0.236  0.240  0.244  0.248  0.252  0.256  0.260
[10051]  0.265  0.270  0.275  0.280  0.285  0.290  0.295  0.300  0.305  0.310
[10061]  0.315  0.320  0.325  0.330  0.335  0.340  0.345  0.350  0.355  0.360
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[10091]  0.532  0.584  0.636  0.688  0.740  0.792  0.844  0.896  0.948  1.000
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# Draw histograms for each column
# Need to add labels to plots
# Need to change axis scale
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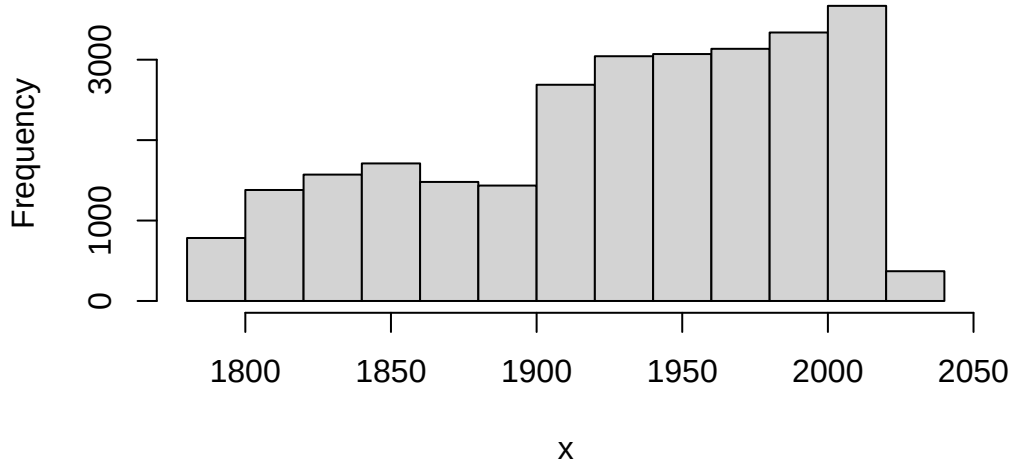


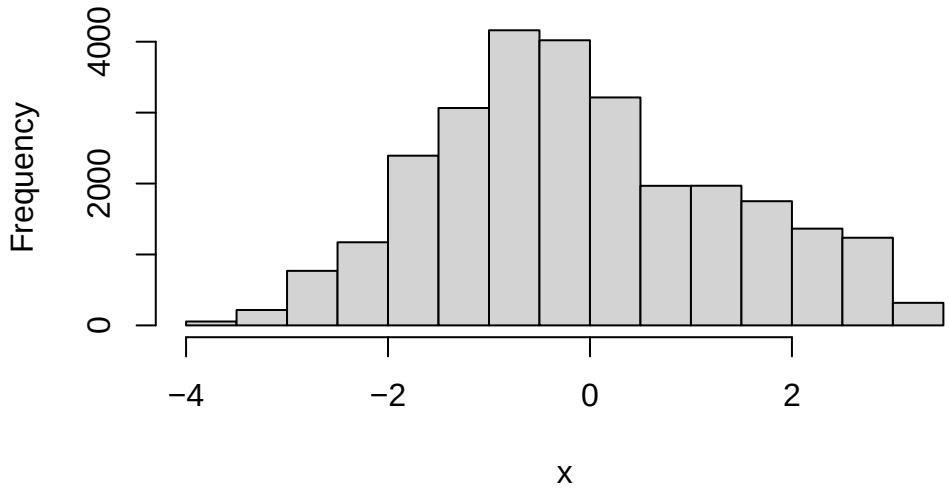

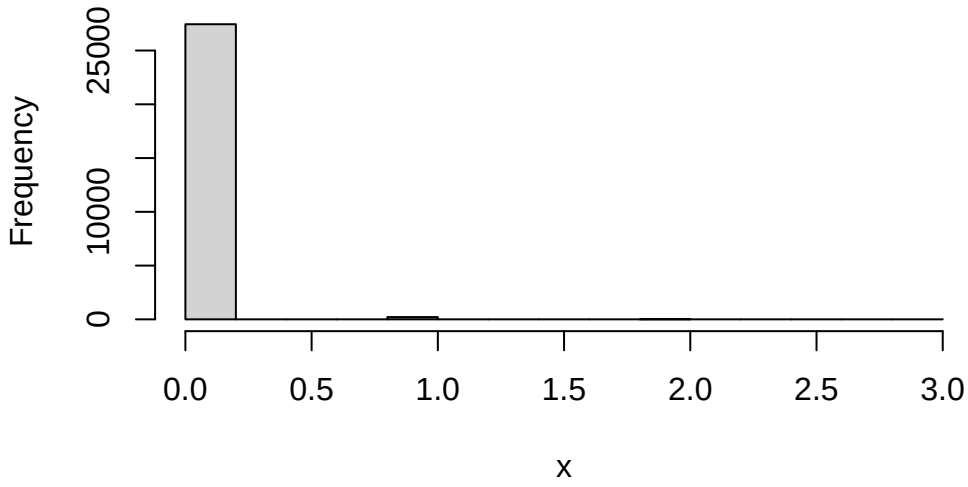
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1.5
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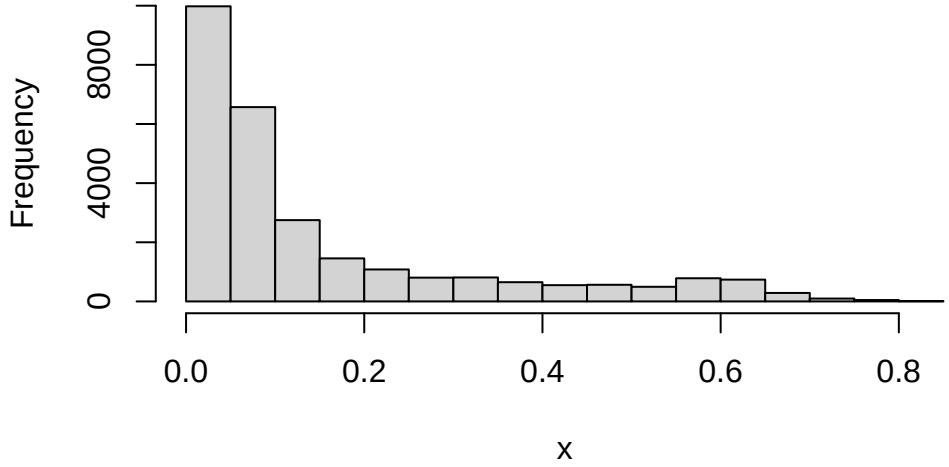
2.5
3.0
x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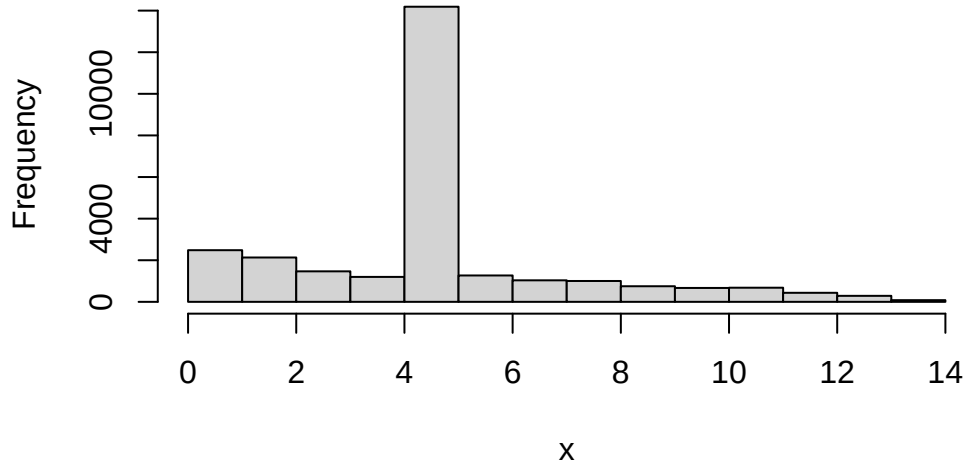
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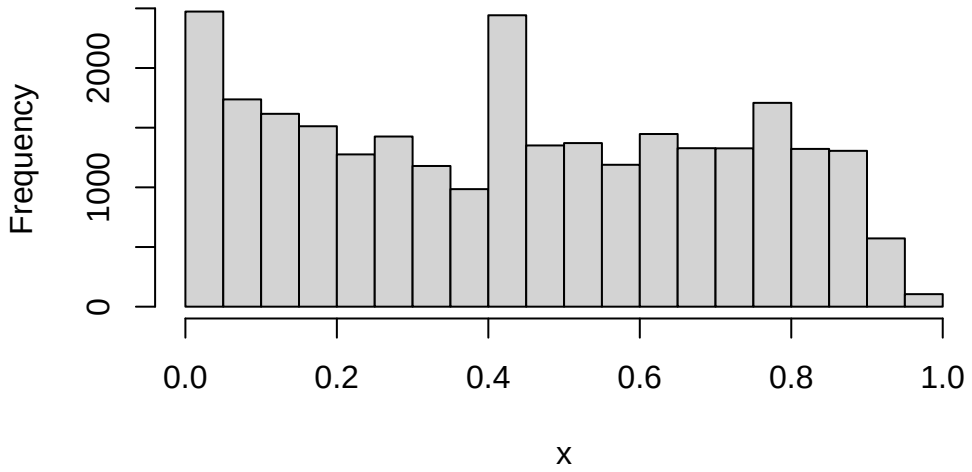
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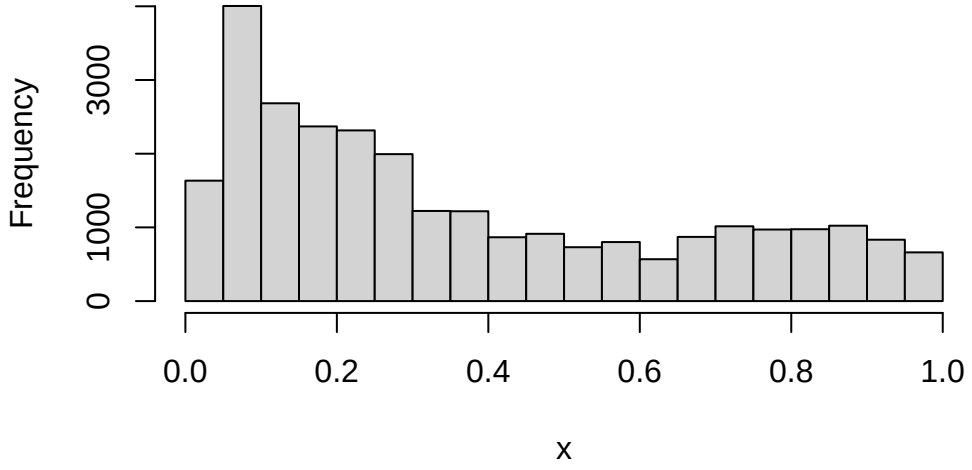
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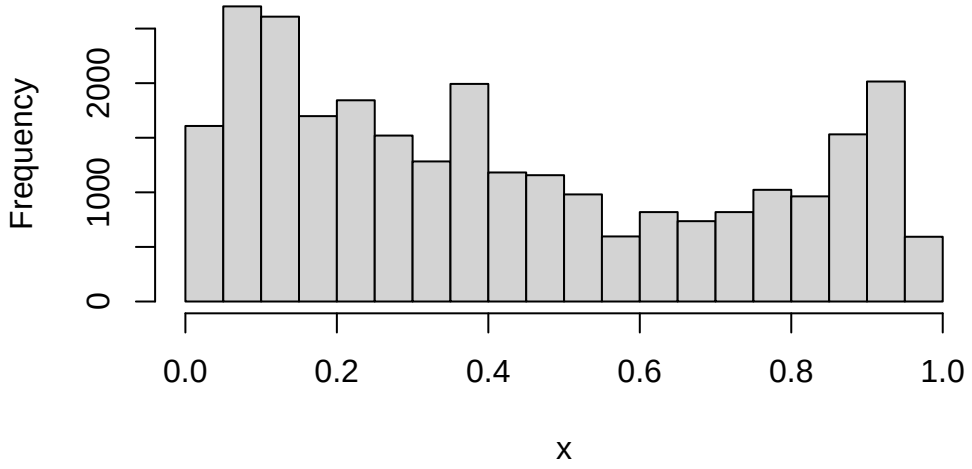
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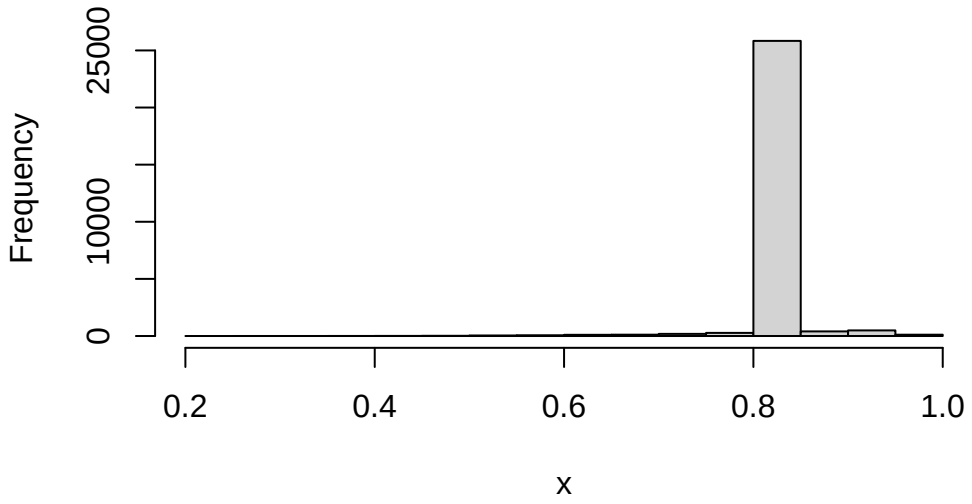
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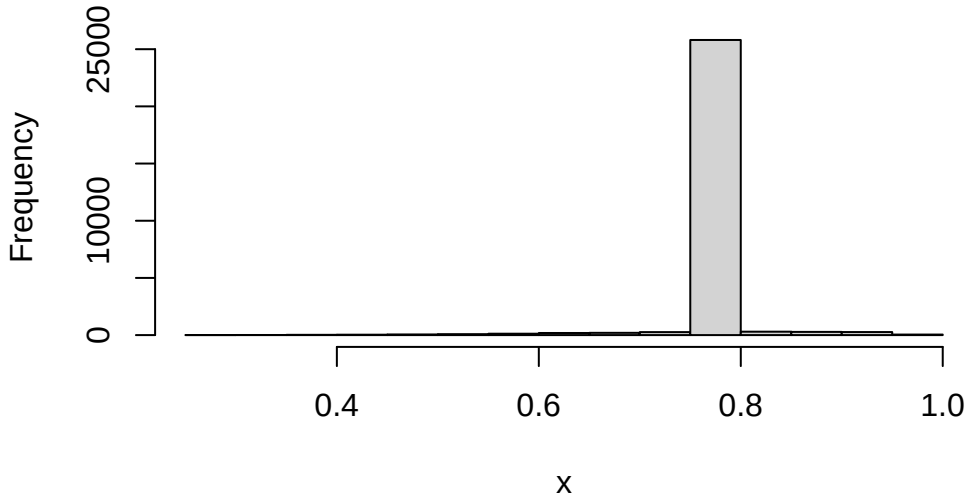
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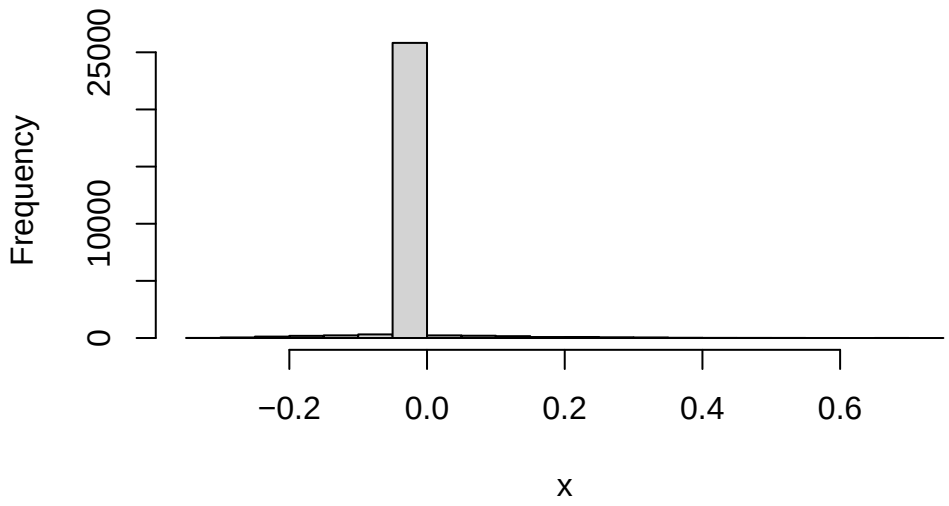


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$counts
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 [6] 0.0025928737 0.0048568951 0.0054983377 0.0055471234 0.0056645707
[11] 0.0060313674 0.0066294449 0.0006685458

$mids
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$equidist
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$density
 [1] 0.003975137 0.015683724 0.055579647 0.084706563 0.172954611 0.221523562
 [7] 0.300737207 0.290546401 0.232292570 0.142237641 0.142309916 0.126553917
[13] 0.098583406 0.089332177 0.022983521

$mids
 [1] -3.75 -3.25 -2.75 -2.25 -1.75 -1.25 -0.75 -0.25  0.25  0.75  1.25  1.75
[13]  2.25  2.75  3.25

$xname
[1] "x"

$equidist
[1] TRUE

attr(,"class")
[1] "histogram"

$e_pt_coup
$breaks
 [1] 0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0

$counts
 [1] 27446     0     0     0   212     0     0     0     0    13     0     0
[13]     0     0     1

$density
 [1] 4.9591644984 0.0000000000 0.0000000000 0.0000000000 0.0383058687
 [6] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0023489448
[11] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0001806881

$mids
 [1] 0.1 0.3 0.5 0.7 0.9 1.1 1.3 1.5 1.7 1.9 2.1 2.3 2.5 2.7 2.9

$xname
[1] "x"

$equidist
[1] TRUE
```

```
attr(,"class")
[1] "histogram"

$v2x_partipdem
$breaks
 [1] 0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60 0.65 0.70
[16] 0.75 0.80 0.85

$counts
 [1] 9979 6571 2749 1455 1081  804  811  650  550  563  495  784  738  287   97
[16]   47   11

$density
 [1] 7.212344608 4.749204973 1.986845909 1.051604510 0.781295172 0.581092801
 [7] 0.586152067 0.469788956 0.397513732 0.406909511 0.357762359 0.566637757
[13] 0.533391154 0.207429893 0.070106967 0.033969355 0.007950275

$mids
 [1] 0.025 0.075 0.125 0.175 0.225 0.275 0.325 0.375 0.425 0.475 0.525 0.575
[13] 0.625 0.675 0.725 0.775 0.825

$xname
[1] "x"

$equidist
[1] TRUE

attr(,"class")
[1] "histogram"

$e_peaveduc
$breaks
 [1]  0  1  2  3  4  5  6  7  8  9 10 11 12 13 14

$counts
 [1]  2483  2132  1466  1199 14186  1268  1035  1002   750   668   679   435
[13]   288    81

$density
 [1] 0.089729691 0.077045389 0.052977739 0.043328997 0.512648164 0.045822492
 [7] 0.037402428 0.036209887 0.027103209 0.024139925 0.024537439 0.015719861
[13] 0.010407632 0.002927147
```

```
$mids
 [1]  0.5  1.5  2.5  3.5  4.5  5.5  6.5  7.5  8.5  9.5 10.5 11.5 12.5 13.5

$xname
[1] "x"

$equidist
[1] TRUE

attr(,"class")
[1] "histogram"

$v2x_corr
$breaks
 [1] 0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60 0.65 0.70
[16] 0.75 0.80 0.85 0.90 0.95 1.00

$counts
 [1] 2473 1737 1616 1512 1276 1426 1179  985 2442 1351 1371 1189 1447 1328 1327
[16] 1708 1322 1306  572  105

$density
 [1] 1.78736629 1.25542064 1.16796762 1.09280139 0.92223186 1.03064469
 [7] 0.85212489 0.71191096 1.76496097 0.97643828 0.99089332 0.85935241
[13] 1.04582249 0.95981498 0.95909222 1.23446083 0.95547846 0.94391443
[19] 0.41341428 0.07588899

$mids
 [1] 0.025 0.075 0.125 0.175 0.225 0.275 0.325 0.375 0.425 0.475 0.525 0.575
[13] 0.625 0.675 0.725 0.775 0.825 0.875 0.925 0.975

$xname
[1] "x"

$equidist
[1] TRUE

attr(,"class")
[1] "histogram"

$v2x_cspart
$breaks
```

```
 [1] 0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60 0.65 0.70
[16] 0.75 0.80 0.85 0.90 0.95 1.00

$counts
 [1] 1634 4004 2684 2370 2316 1994 1223 1219  866  913  731  801  568  871 1015
[16]  971  975 1023  833  661

$density
 [1] 1.1809772 2.8939000 1.9398670 1.7129228 1.6738942 1.4411680 0.8839260
 [8] 0.8810350 0.6259034 0.6598728 0.5283319 0.5789245 0.4105233 0.6295172
[15] 0.7335935 0.7017924 0.7046834 0.7393755 0.6020526 0.4777392

$mids
 [1] 0.025 0.075 0.125 0.175 0.225 0.275 0.325 0.375 0.425 0.475 0.525 0.575
[13] 0.625 0.675 0.725 0.775 0.825 0.875 0.925 0.975

$xname
[1] "x"

$equidist
[1] TRUE

attr(,"class")
[1] "histogram"

$v2xcs_ccsi
$breaks
 [1] 0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60 0.65 0.70
[16] 0.75 0.80 0.85 0.90 0.95 1.00

$counts
 [1] 1608 2703 2609 1698 1843 1520 1283 1993 1182 1157  981  596  819  736  819
[16] 1023  963 1531 2015  593

$density
 [1] 1.1621856 1.9535993 1.8856606 1.2272333 1.3320324 1.0985834 0.9272911
 [8] 1.4404452 0.8542931 0.8362243 0.7090199 0.4307603 0.5919341 0.5319456
[15] 0.5919341 0.7393755 0.6960104 1.1065337 1.4563458 0.4285921

$mids
 [1] 0.025 0.075 0.125 0.175 0.225 0.275 0.325 0.375 0.425 0.475 0.525 0.575
[13] 0.625 0.675 0.725 0.775 0.825 0.875 0.925 0.975
```

```
$xname
[1] "x"

$equidist
[1] TRUE

attr(,"class")
[1] "histogram"

$`Social support`
$breaks
 [1] 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60 0.65 0.70 0.75 0.80 0.85 0.90
[16] 0.95 1.00

$counts
 [1]     1     3     3     4    10    18    46    66   104   117   187   272
[13] 25833   403   491   114

$density
 [1] 7.227522e-04 2.168257e-03 2.168257e-03 2.891009e-03 7.227522e-03
 [6] 1.300954e-02 3.324660e-02 4.770165e-02 7.516623e-02 8.456201e-02
[11] 1.351547e-01 1.965886e-01 1.867086e+01 2.912692e-01 3.548714e-01
[16] 8.239376e-02

$mids
 [1] 0.225 0.275 0.325 0.375 0.425 0.475 0.525 0.575 0.625 0.675 0.725 0.775
[13] 0.825 0.875 0.925 0.975

$xname
[1] "x"

$equidist
[1] TRUE

attr(,"class")
[1] "histogram"

$`Freedom to make life choices`
$breaks
 [1] 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60 0.65 0.70 0.75 0.80 0.85 0.90 0.95
[16] 1.00

$counts
```

```
 [1]     5     9    24    35    57    81   121   185   199   260 25805   298
[13]   280   266    47

$density
 [1]  0.003613761  0.006504770  0.017346054  0.025296328  0.041196878
 [6]  0.058542931  0.087453021  0.133709164  0.143827696  0.187915583
[11] 18.650621567  0.215380168  0.202370627  0.192252096  0.033969355

$mids
 [1] 0.275 0.325 0.375 0.425 0.475 0.525 0.575 0.625 0.675 0.725 0.775 0.825
[13] 0.875 0.925 0.975

$xname
[1] "x"

$equidist
[1] TRUE

attr(,"class")
[1] "histogram"

$Generosity
$breaks
 [1] -0.35 -0.30 -0.25 -0.20 -0.15 -0.10 -0.05  0.00  0.05  0.10  0.15  0.20
[13]  0.25  0.30  0.35  0.40  0.45  0.50  0.55  0.60  0.65  0.70  0.75

$counts
 [1]     8    48   123   189   232   314 25822   229   201   162    86    89
[13]    64    49    20    11     9     7     3     1     4     1

$density
 [1] 5.782018e-03 3.469211e-02 8.889853e-02 1.366002e-01 1.676785e-01
 [6] 2.269442e-01 1.866291e+01 1.655103e-01 1.452732e-01 1.170859e-01
[11] 6.215669e-02 6.432495e-02 4.625614e-02 3.541486e-02 1.445504e-02
[16] 7.950275e-03 6.504770e-03 5.059266e-03 2.168257e-03 7.227522e-04
[21] 2.891009e-03 7.227522e-04

$mids
 [1] -0.325 -0.275 -0.225 -0.175 -0.125 -0.075 -0.025  0.025  0.075  0.125
[11]  0.175  0.225  0.275  0.325  0.375  0.425  0.475  0.525  0.575  0.625
[21]  0.675  0.725

$xname
```

```
[1] "x"

$equidist
[1] TRUE

attr(,"class")
[1] "histogram"
```

```
#Replacing the outliers of a particular column with median

## you'll probably want to include why you chose the ones you did

#vec1<-boxplot.stats(data$Dist_Taxi)$out;
#data$Dist_Taxi[data$Dist_Taxi %in% vec1]<-median(data$Dist_Taxi)
```

```
# changes names to shorter and easier to type/remember forms
cs <- new_total %>% rename(csrepress = v2csreprss, civil_war = e_civil_war, coup = e_pt_co
                           edu = e_peaveduc, corr = v2x_corr, cspart = v2x_cspart,
                           cs_index = v2xcs_ccsi, social_support = 'Social support',
                           choices = 'Freedom to make life choices', gen = Generosity)

cs <- cs %>% filter(year > 2011) # updates to match year for both datasets
# the full measures for happiness start in 2012, so all years before then are
# filtered out for the sake of analysis

saveRDS(cs, file = "civil_society")
```

### Code book - README.qmd - Kaori

- updated in the data folder and this folder

### Data Visualization - Ephrata and Kaori

Question 1:
How well does it measure the outcome you are interested in? - Kaori We chose civil society participation as our outcome variable. We were originally going to use civil society index, but we were not able to find much information regarding the actual measures considered, so we chose to use civil society participation instead. This is because civil society index may have already considered factors we are adding to the model, while civil society participation will

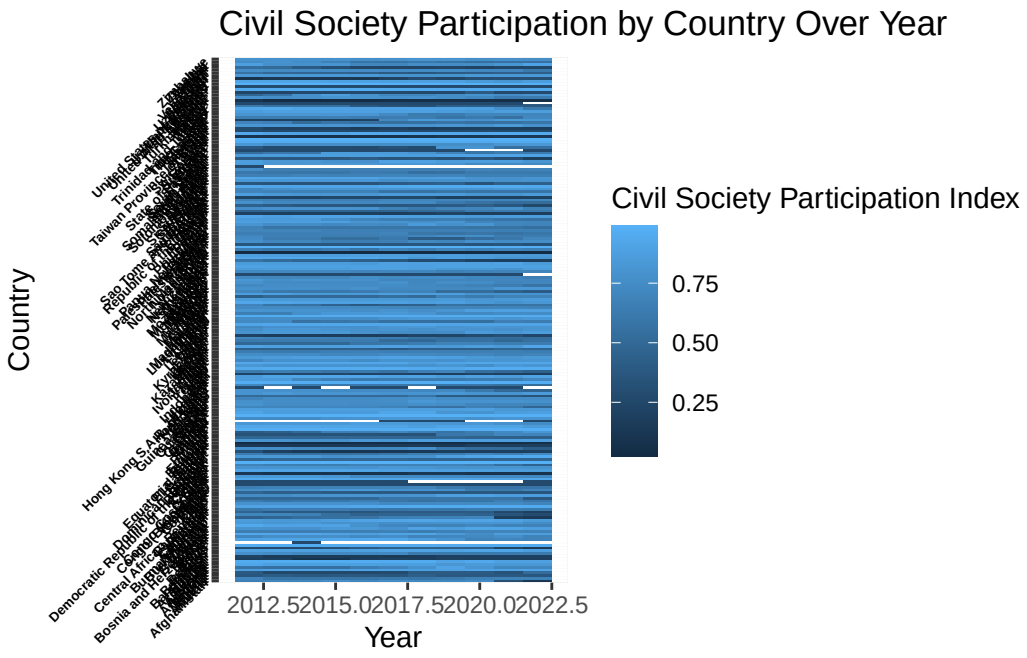
tell us how many people are actually participating in civil society, which is the public sphere between the private sphere and government, which can include professional organizations, charities, labor unions, and spiritual groups.

Question 2: What is our hypothesis? Our hypothesis is that countries with similar characteristics regarding supporting/ not supporting civil society–such as the presences of war or good educational systems–will have similar civil society participation rates.

How do our variable choices relate to our hypotheses? (paraphrasing from the proposal) - Kaori Our choices of variables reflect our understanding of civil society and the factors that make it stronger or weaker. Things that bring people together, such as generosity, and things that may bring people apart, such as corruption, we expect to have an effect on participation in civil society, which is why they are included. Civil society repression effort is included because we expect higher repression efforts to have an effect on participation in general, likely negative. This is considered in the civil society index, but will be used in preliminary analysis for better understanding and exploration of the topic. Social support we expect to have a positive relationship with civil society participation because people will be connected with each other, and the same applies to generosity, with the opposite logic applying to presence of war and coups. Civil society index is included because we expect a stronger civil society to have a stronger participation rate, as with education because schools and teaching organizations often are a large part of civil society. The civil society index takes into account the entry/exit of civil society organizations (CSOs), the repression of civil society, and the participatory environment, which is the types and amount of CSOs available. Government corruption is included because this may dissuade people from participating in civil society or weaken civil society by underfunding it making people less likely to engage in it. Finally, participation in democracy is used because it measures the active level of citizen participation which considers suffrage, direct democracy, engagement with civil society organizations, and subnational elected bodies.

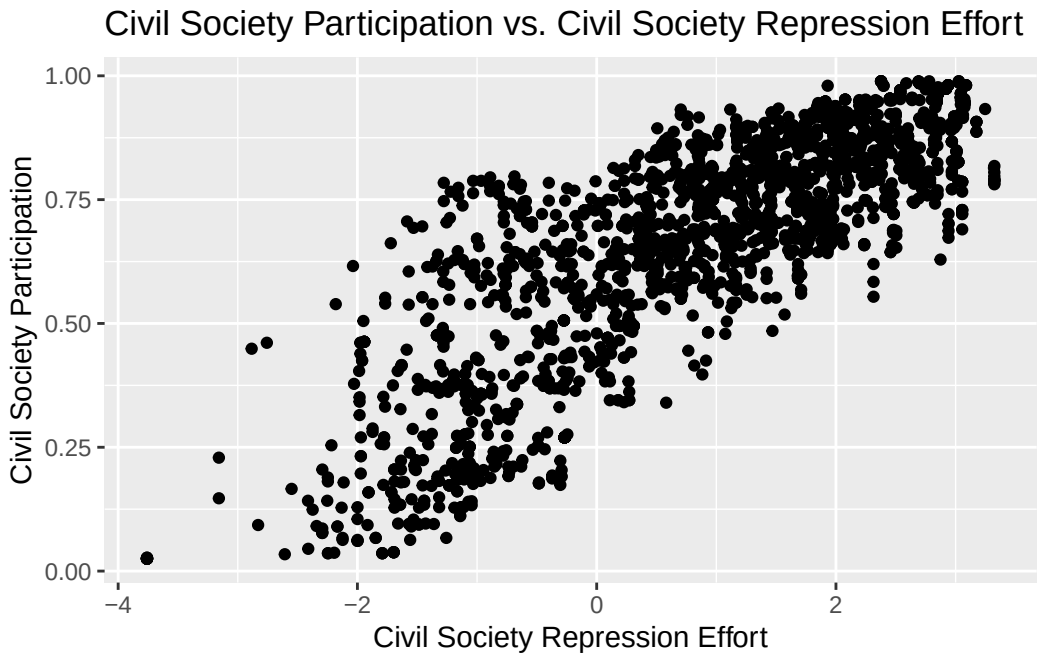
Visualization group 1: - A correlation heat map - Kaori

```
gg <- ggplot(data = cs, aes(x = year, y = country_name, fill = cspart)) +
  geom_tile() +
  labs(title = "Civil Society Participation by Country Over Year", x = 'Year',
       y = 'Country', fill = 'Civil Society Participation Index') +
  theme(axis.text.y = element_text(face="bold", color="black",  size=5, angle = 45, hjust
  options(repr.plot.width = 15, repr.plot.height = 30)

gg
```

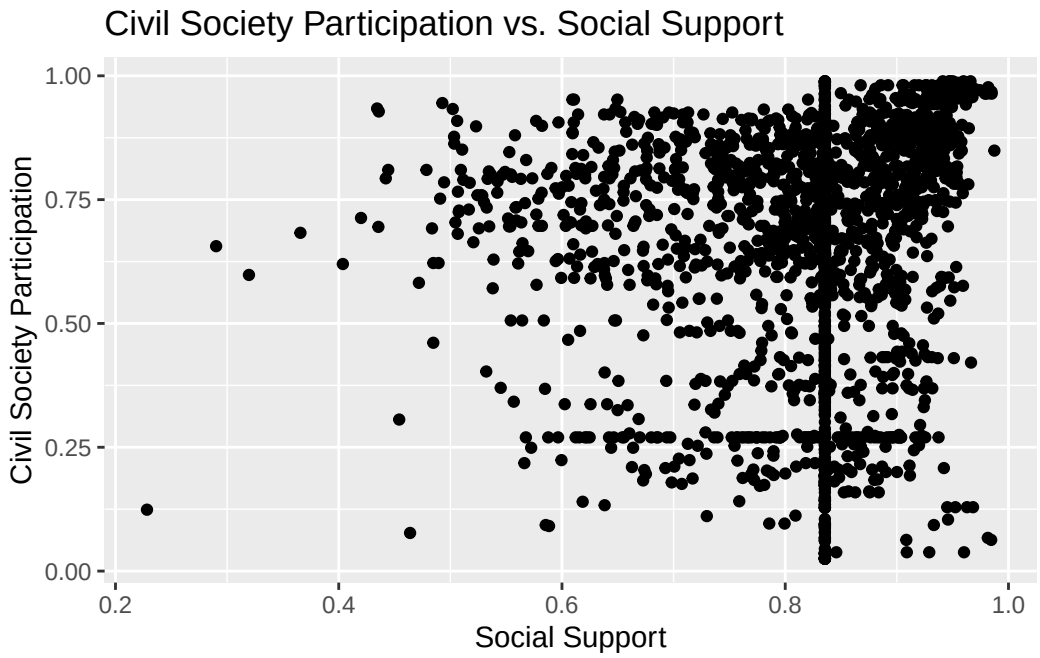



Visualization group 2: - Scatter plots civil society participation vs. each single predictor - Ephrata - Line graphs showing changes over time for each predictor vs. outcome - Ephrata - QQ Plot - Ephrata

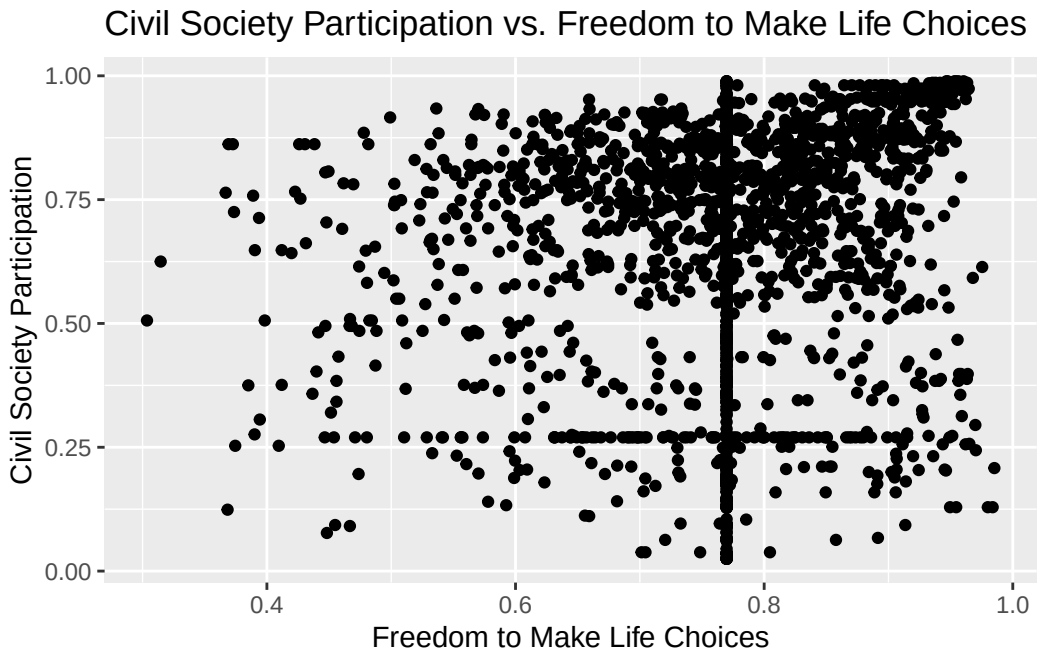
```
# Scatter plot of civil society participation vs. civil society repression effort
ggplot(cs, aes(x = csrepress, y = cspart)) +
  geom_point() +
  labs(x = "Civil Society Repression Effort", y = "Civil Society Participation") +
  ggtitle("Civil Society Participation vs. Civil Society Repression Effort")
```




```
# Scatter plot of civil society participation vs. social support
ggplot(cs, aes(x = social_support, y = cspart)) +
  geom_point() +
  labs(x = "Social Support", y = "Civil Society Participation") +
  ggtitle("Civil Society Participation vs. Social Support")
```

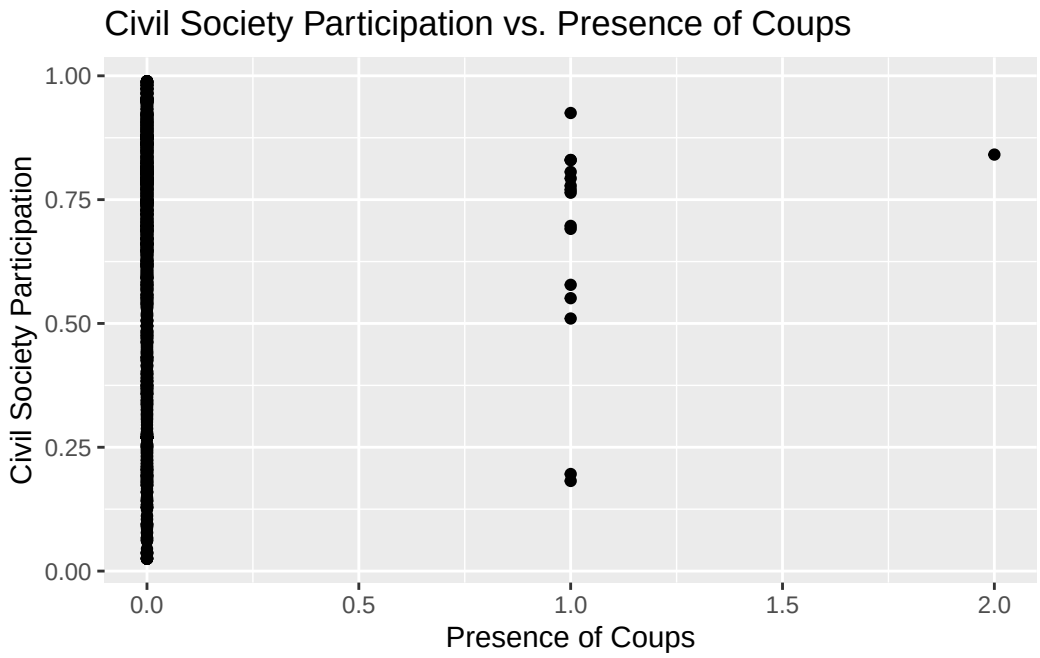



```
# Scatter plot of civil society participation vs. freedom to make life choices
ggplot(cs, aes(x = choices, y = cspart)) +
  geom_point() +
  labs(x = "Freedom to Make Life Choices", y = "Civil Society Participation") +
  ggtitle("Civil Society Participation vs. Freedom to Make Life Choices")
```

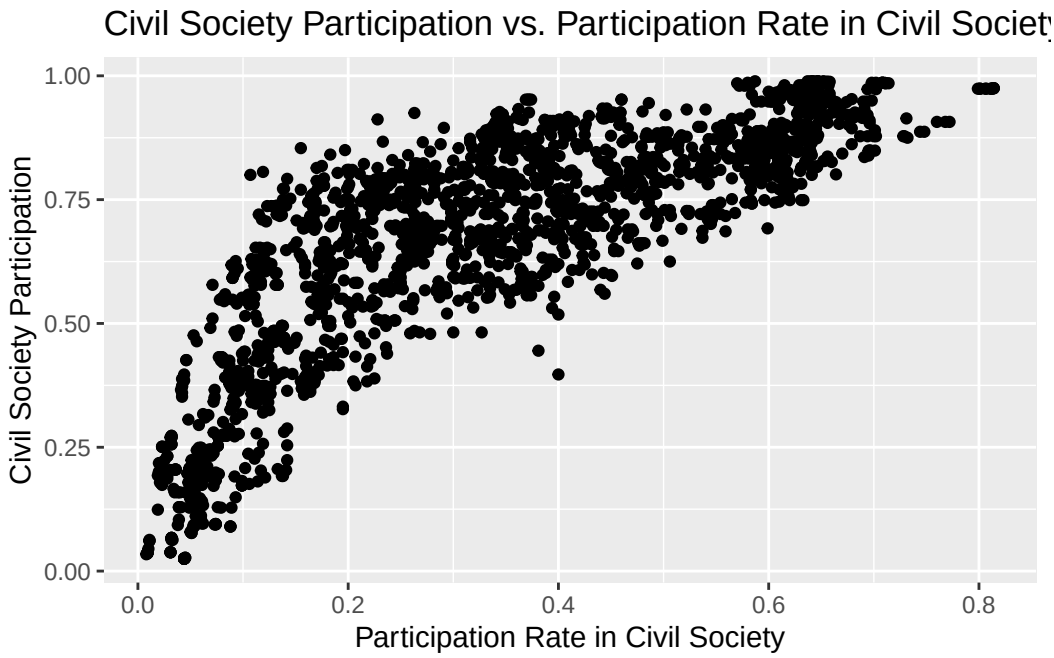



```
# Scatter plot of civil society participation vs. presence of war
ggplot(cs, aes(x = civil_war, y = cspart)) +
  geom_point() +
  labs(x = "Presence of War", y = "Civil Society Participation") +
  ggtitle("Civil Society Participation vs. Presence of War")
```

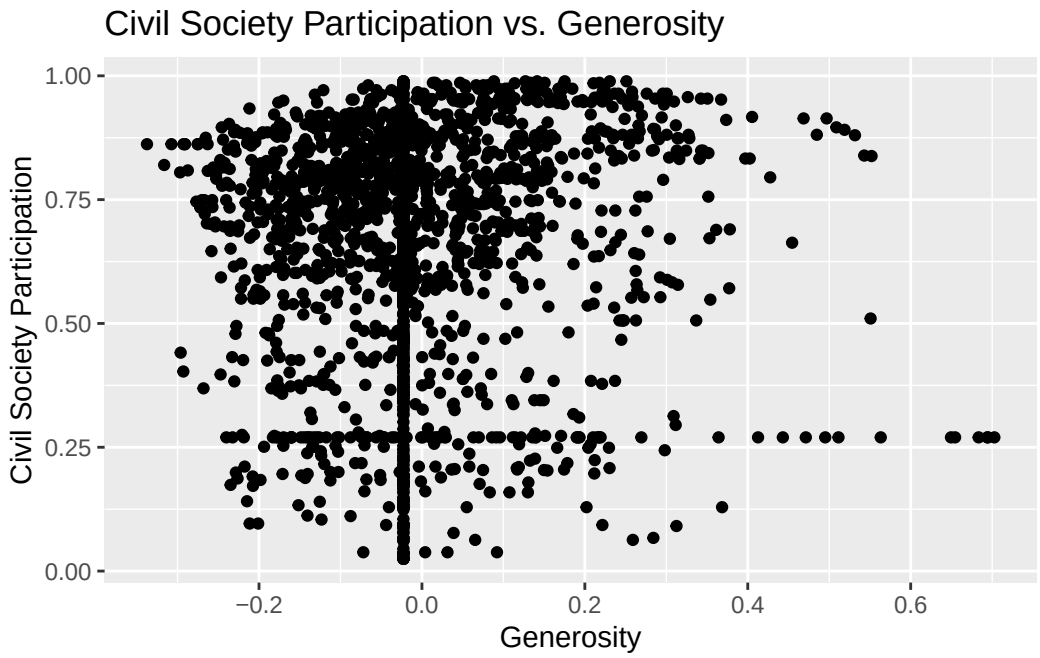
```
# Scatter plot of civil society participation vs. presence of coups
ggplot(cs, aes(x = coup, y = cspart)) +
  geom_point() +
  labs(x = "Presence of Coups", y = "Civil Society Participation") +
  ggtitle("Civil Society Participation vs. Presence of Coups")
```



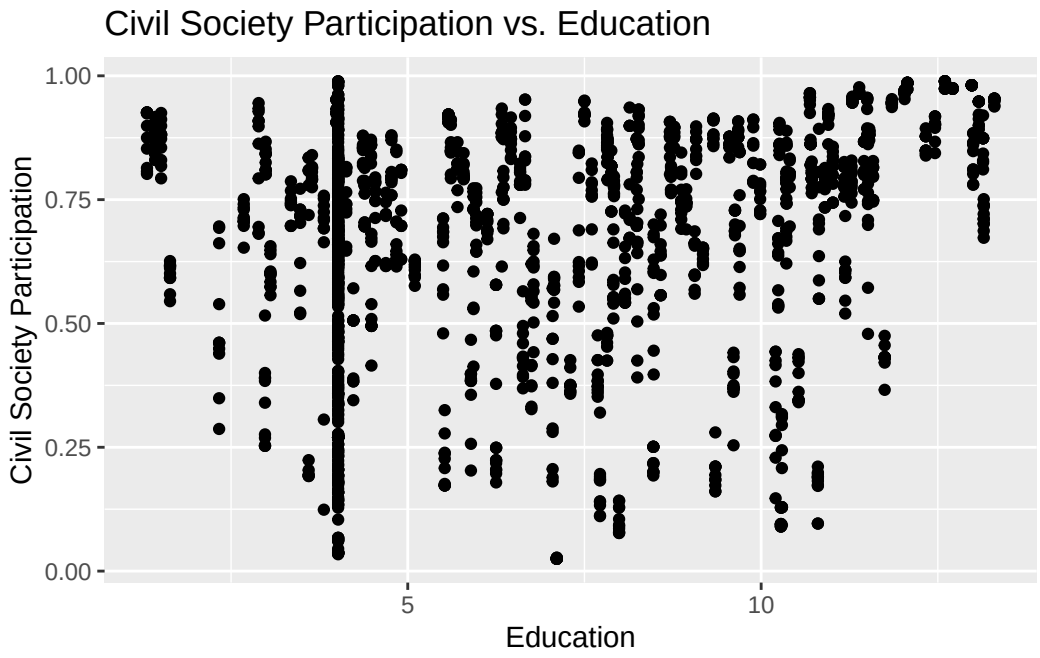

```
# Scatter plot of civil society participation vs. participation rate in civil society
ggplot(cs, aes(x = v2x_partipdem, y = cspart)) +
  geom_point() +
  labs(x = "Participation Rate in Civil Society", y = "Civil Society Participation") +
  ggtitle("Civil Society Participation vs. Participation Rate in Civil Society")
```



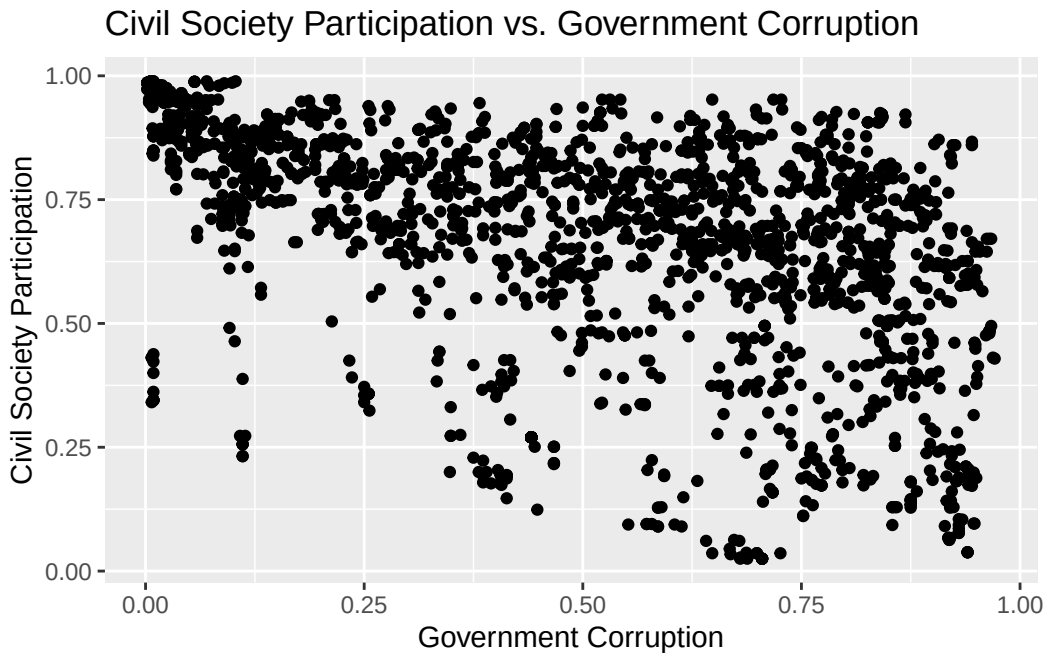

```
# Scatter plot of civil society participation vs. generosity
ggplot(cs, aes(x = gen, y = cspart)) +
  geom_point() +
  labs(x = "Generosity", y = "Civil Society Participation") +
  ggtitle("Civil Society Participation vs. Generosity")
```



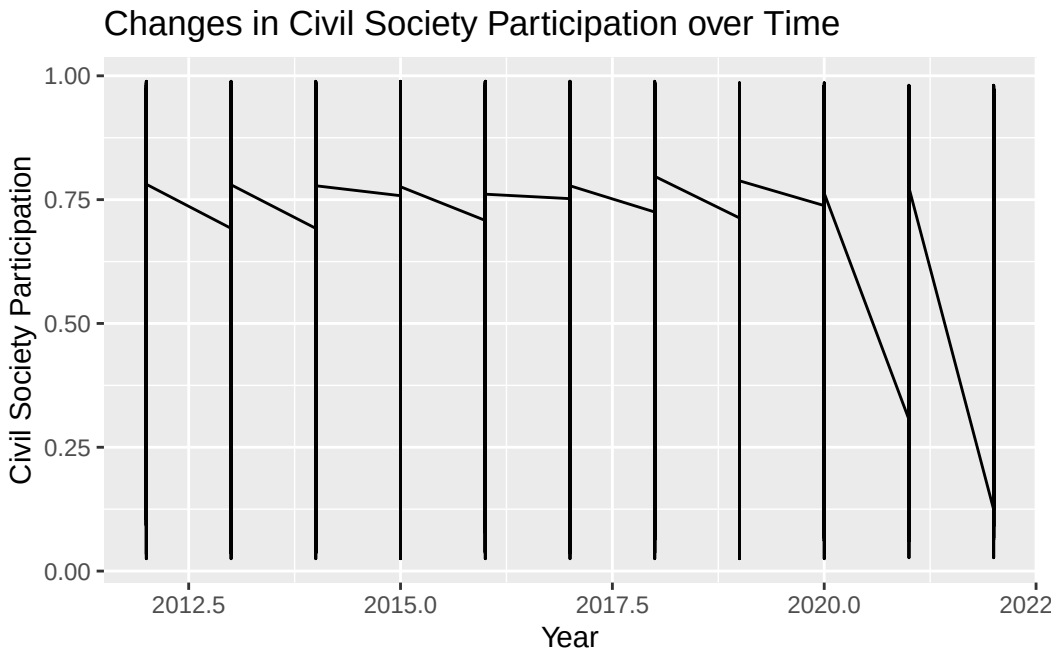

```
# Scatter plot of civil society participation vs. education
ggplot(cs, aes(x = edu, y = cspart)) +
  geom_point() +
  labs(x = "Education", y = "Civil Society Participation") +
  ggtitle("Civil Society Participation vs. Education")
```



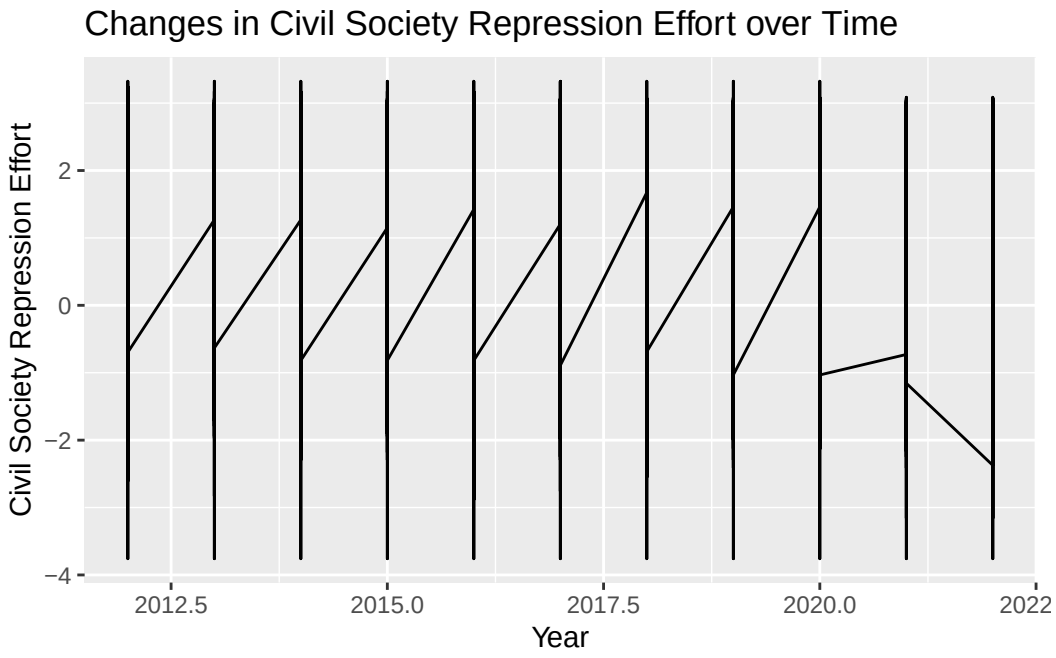

```
# Scatter plot of civil society participation vs. government corruption
ggplot(cs, aes(x = corr, y = cspart)) +
  geom_point() +
  labs(x = "Government Corruption", y = "Civil Society Participation") +
  ggtitle("Civil Society Participation vs. Government Corruption")
```



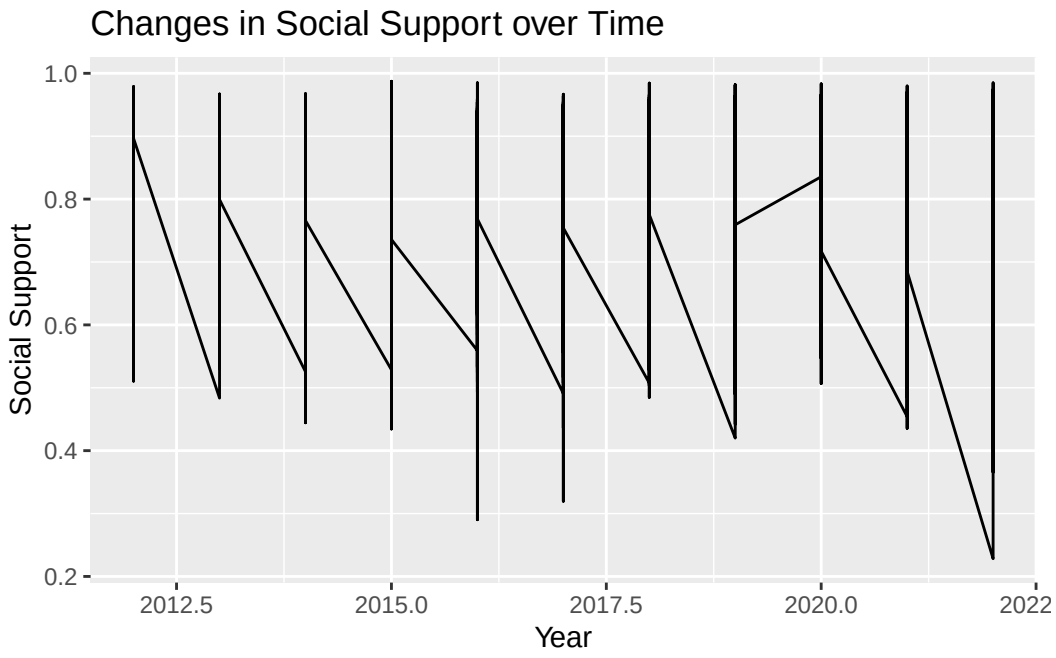

```
## the line graphs look kinda weird. is there a way to make them better for time
## series or large amounts of


# Line graph of civil society participation over time
ggplot(cs, aes(x = year, y = cspart)) +
  geom_line() +
  labs(x = "Year", y = "Civil Society Participation") +
  ggtitle("Changes in Civil Society Participation over Time")
```



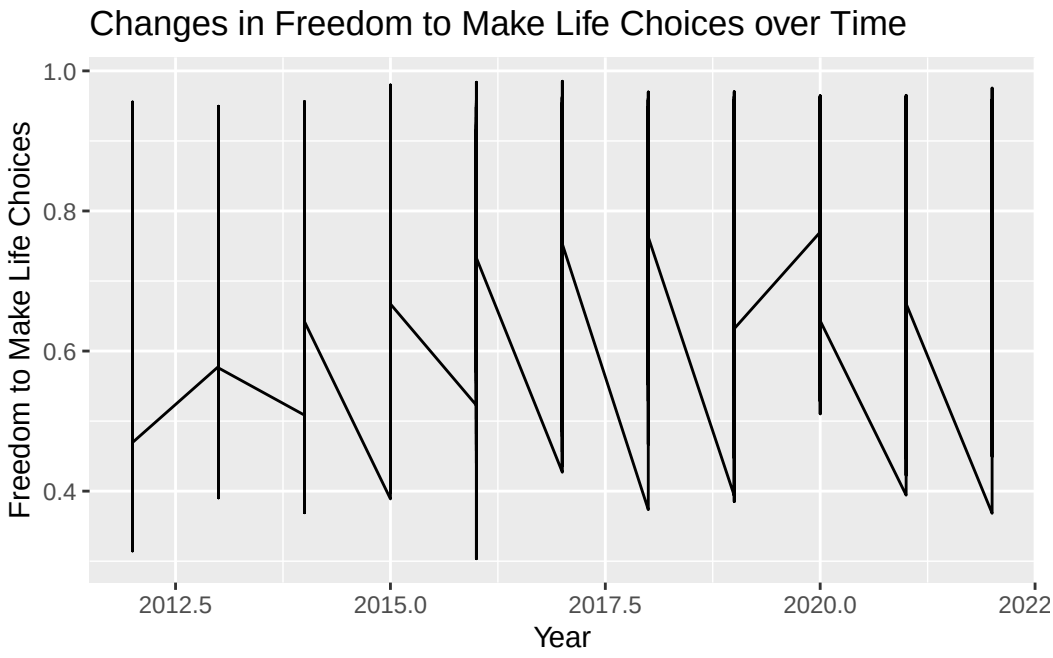

```
# Line graph of civil society repression effort over time
ggplot(cs, aes(x = year, y = csrepress)) +
  geom_line() +
  labs(x = "Year", y = "Civil Society Repression Effort") +
  ggtitle("Changes in Civil Society Repression Effort over Time")
```



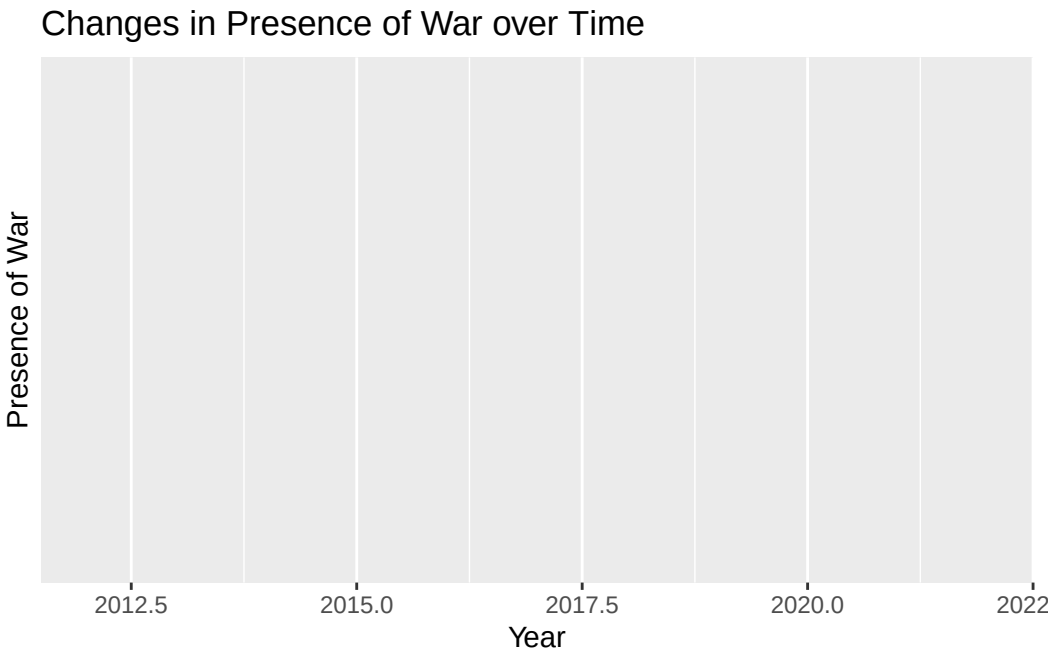

```
# Line graph of social support over time
ggplot(cs, aes(x = year, y = social_support)) +
  geom_line() +
  labs(x = "Year", y = "Social Support") +
  ggtitle("Changes in Social Support over Time")
```



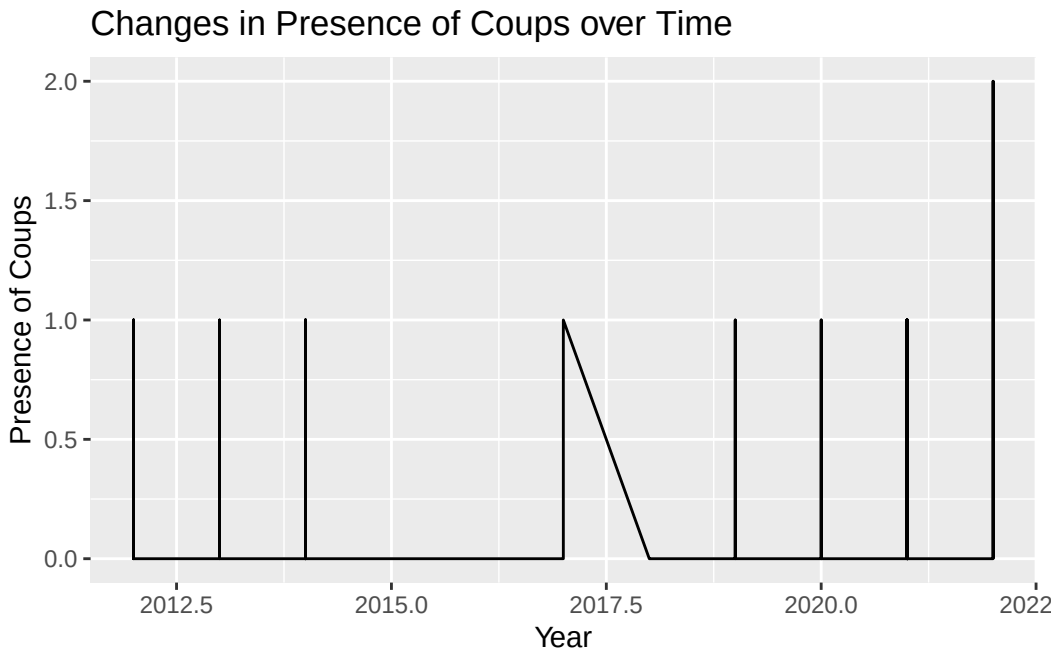

```
# Line graph of freedom to make life choices over time
ggplot(cs, aes(x = year, y = choices)) +
  geom_line() +
  labs(x = "Year", y = "Freedom to Make Life Choices") +
  ggtitle("Changes in Freedom to Make Life Choices over Time")
```



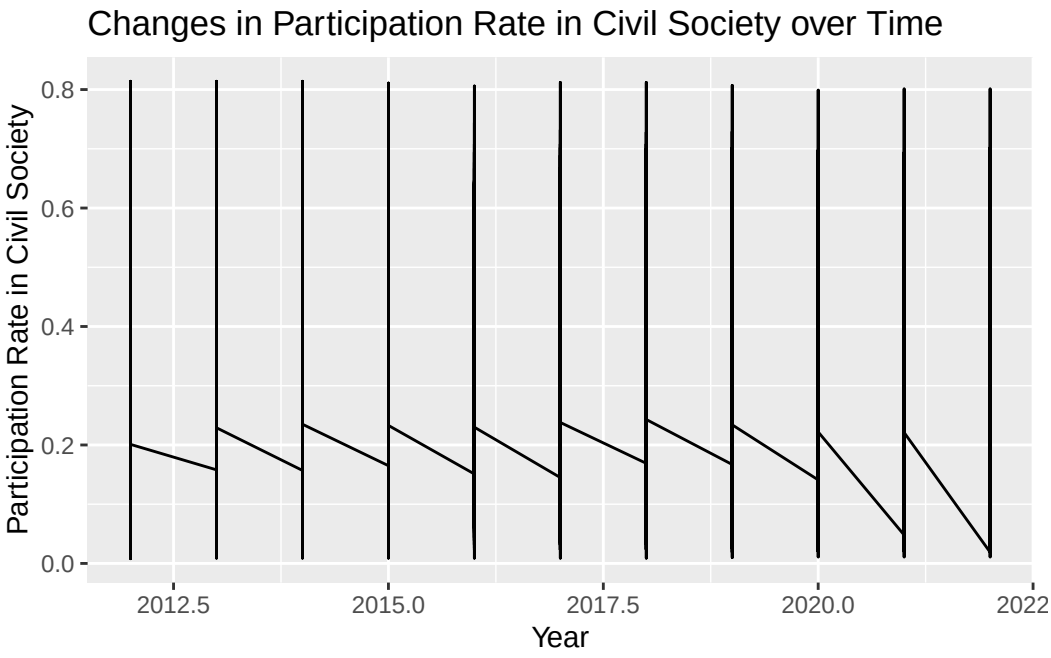

```
# Line graph of presence of war over time
ggplot(cs, aes(x = year, y = civil_war)) +
  geom_line() +
  labs(x = "Year", y = "Presence of War") +
  ggtitle("Changes in Presence of War over Time")
```



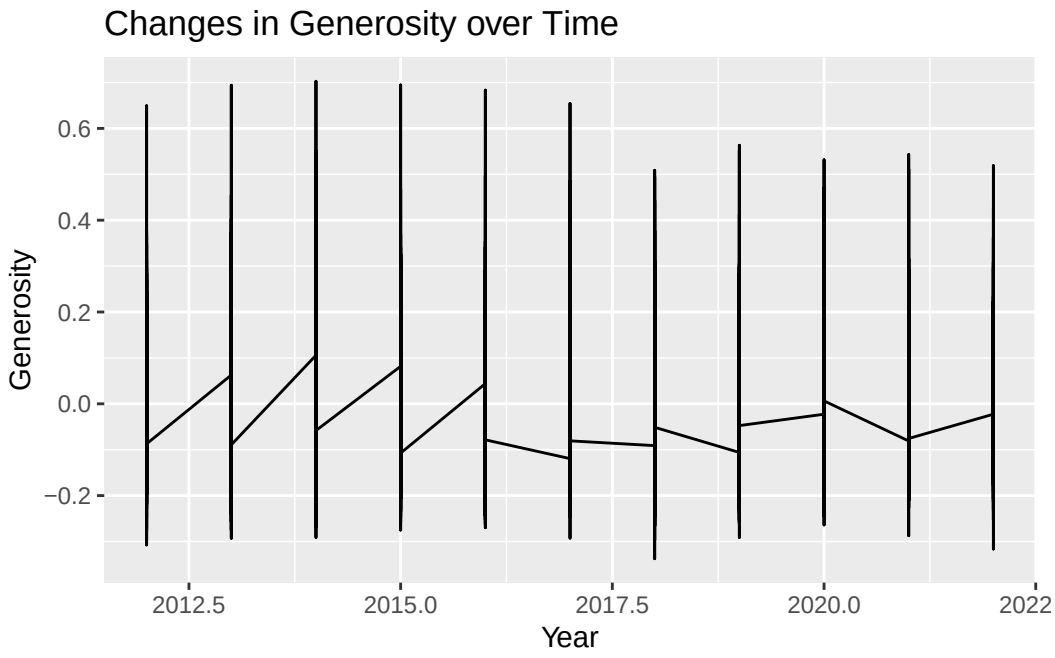

```
# Line graph of presence of coups over time
ggplot(cs, aes(x = year, y = coup)) +
  geom_line() +
  labs(x = "Year", y = "Presence of Coups") +
  ggtitle("Changes in Presence of Coups over Time")
```



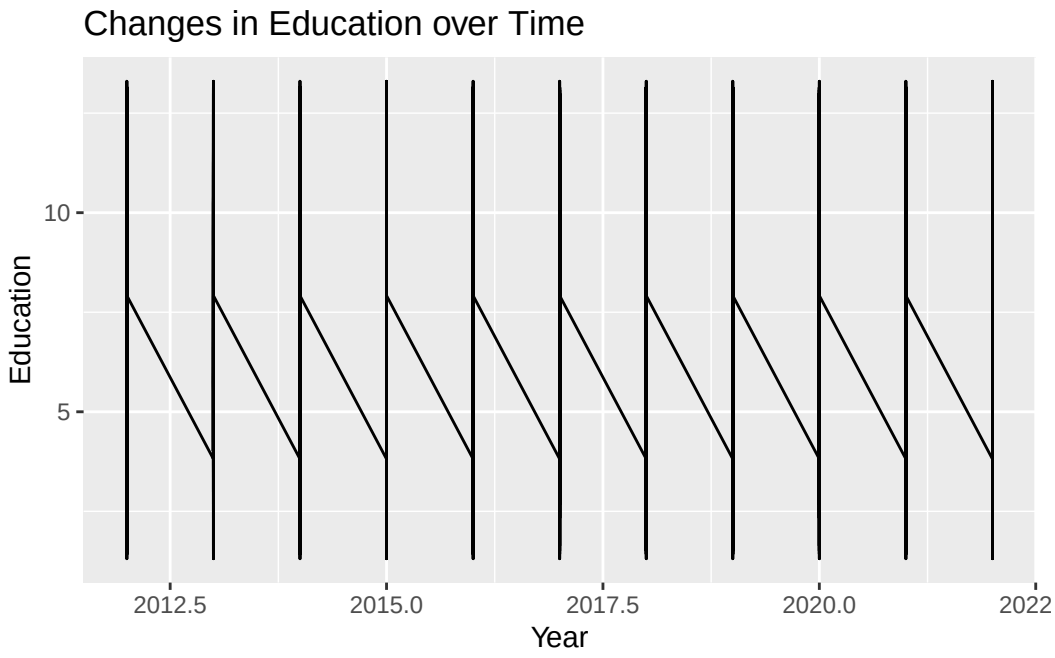

```
# Line graph of participation rate in civil society over time
ggplot(cs, aes(x = year, y = v2x_partipdem)) +
  geom_line() +
  labs(x = "Year", y = "Participation Rate in Civil Society") +
  ggtitle("Changes in Participation Rate in Civil Society over Time")
```



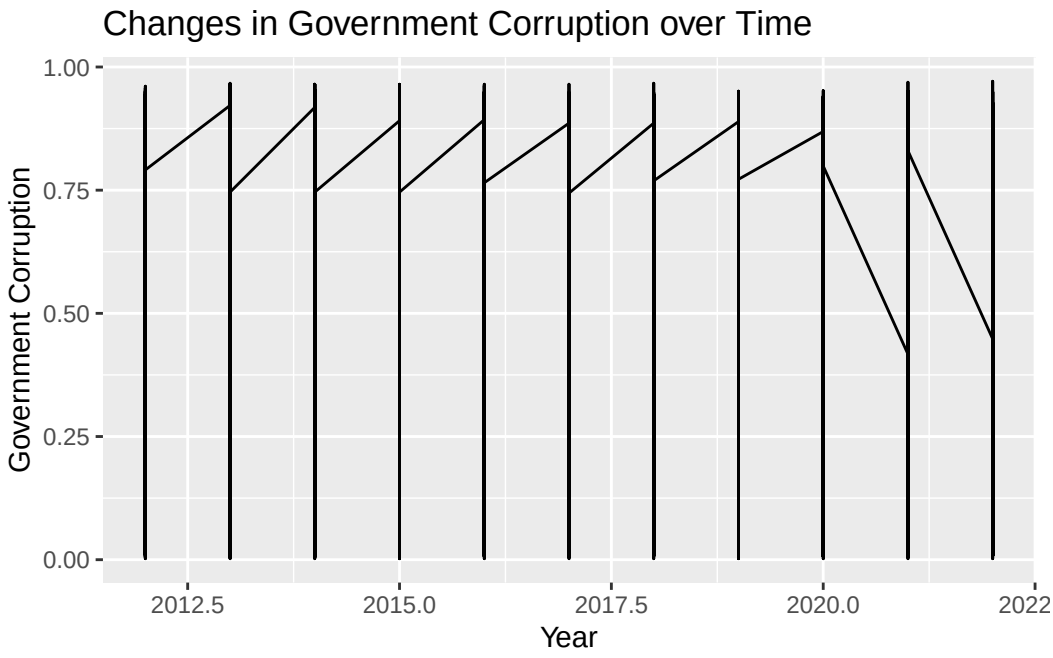

```
# Line graph of generosity over time
ggplot(cs, aes(x = year, y = gen)) +
  geom_line() +
  labs(x = "Year", y = "Generosity") +
  ggtitle("Changes in Generosity over Time")
```

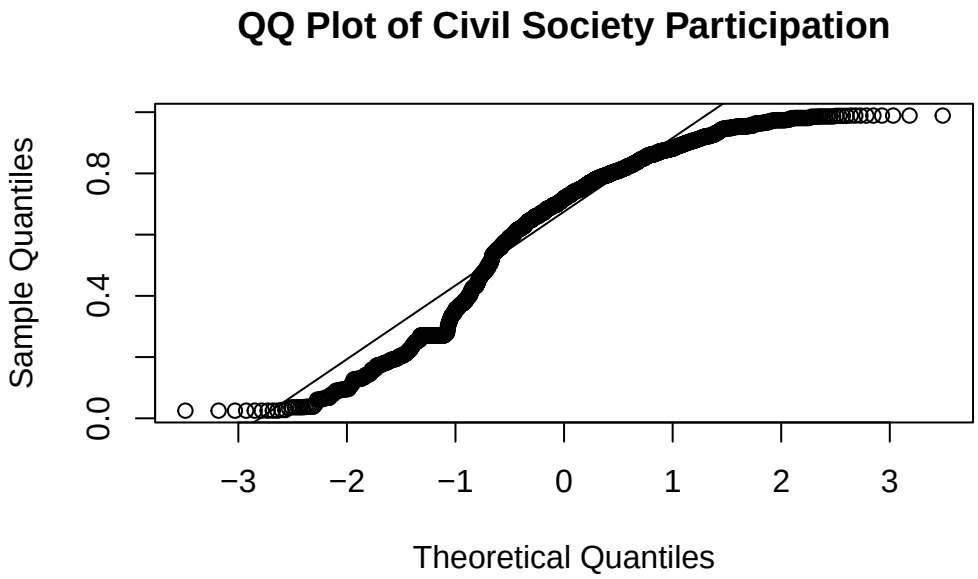



```
# Line graph of education over time
ggplot(cs, aes(x = year, y = edu)) +
  geom_line() +
  labs(x = "Year", y = "Education") +
  ggtitle("Changes in Education over Time")
```




```
# Line graph of government corruption over time
ggplot(cs, aes(x = year, y = corr)) +
  geom_line() +
  labs(x = "Year", y = "Government Corruption") +
  ggtitle("Changes in Government Corruption over Time")
```




```r
# QQ plot of civil society participation
qqnorm(cs$cspart, main = "QQ Plot of Civil Society Participation")
qqline(cs$cspart)
```