

Code Associated with Explainable Machine Learning for Functional Data

Code in Main Paper

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Set Up

```
# R markdown options
knitr::opts_chunk$set(
  message = FALSE,
  fig.align = "center",
  dpi = 600,
  warning = FALSE,
  error = FALSE
)
knitr::opts_knit$set(eval.after = "fig.cap")

# Using v0.1.7 of veesa R package. For now, this version is only on github.
# Uncomment line below to install from github:
#remotes::install_github("sandialabs/veesa")

# Load packages
library(cowplot)
library(dplyr)
library(fdasrvf)
library(forcats)
library(ggplot2)
library(kableExtra)
library(latex2exp)
library(purrr)
library(randomForest)
library(reticulate)
library(stringr)
library(tidyr)
library(veesa)
library(wesanderson)
```

```

# Specify the conda environment to use - create environment using veesa_env.yml
use_condaenv(condaenv = "veesa", required = T)

# Specify colors for groups
col_2groups = wes_palettes$Royal1[2:1]
col_5groups = wes_palette(name = "Royal1", n = 5, type = "continuous")[c(1,2,3,5,4)]

# Specify colors for PC direction plots
col_plus1 = "#784D8C"
col_plus2 = "#A289AE"
col_plus3 = "#CACOD2"
col_minus1 = "#EA9B44"
col_minus2 = "#EBBC88"
col_minus3 = "#F3DABC"
col_pcdir_2sd = c(col_plus2, col_plus1, "black", col_minus1, col_minus2)
col_pcdir_3sd = c(col_plus3, col_plus2, col_plus1, "black", col_minus1, col_minus2, col_minus3)

# Specify inkjet colors
col_inkjet = c("#0EB4AD", "#8f1883", "#d9c004")

# Specify the font for all plots
ff = "Helvetica"

# Specify a file path
# (assumes the working directory is the location of this file)
fp = "../"

# Create results folders (if not already created)
fp_res = paste0(fp, "results/")
if (!dir.exists(fp_res)) {
  dir.create(fp_res)
}
fp_res_sp = paste0(fp_res, "shifted-peaks/")
if (!dir.exists(fp_res_sp)) {
  dir.create(fp_res_sp)
}
fp_res_hct = paste0(fp_res, "hct/")
if (!dir.exists(fp_res_hct)) {
  dir.create(fp_res_hct)
}
fp_res_inkjet = paste0(fp_res, "inkjet/")
if (!dir.exists(fp_res_inkjet)) {
  dir.create(fp_res_inkjet)
}

```

Shifted Peaks Data Analyses

```

# Get shifted peaks data from veesa R package
sp = veesa::shifted_peaks

# Extract times
sp_times = unique(sp$data$t)

```

```

# Determine relevant sample sizes
sp_n = length(unique(sp$data$id))
sp_n_per_data = sp$data |> distinct(id, data) |> count(data)
sp_ntrain = sp_n_per_data |> filter(data == "Training") |> pull(n)
sp_ntest = sp_n_per_data |> filter(data == "Testing") |> pull(n)

# Create long versions of training/testing data sets
sp_train_long = sp$data |> filter(data == "Training")
sp_test_long = sp$data |> filter(data == "Testing")

# Create wide versions of training data set
sp_train_wide <-
  sp_train_long |>
  select(-t) |>
  mutate(index = paste0("t", index)) |>
  pivot_wider(names_from = index, values_from = y)

# Create wide versions of testing data set
sp_test_wide <-
  sp_test_long |>
  select(-t) |>
  mutate(index = paste0("t", index)) |>
  pivot_wider(names_from = index, values_from = y)

# Convert training data to matrix (N x M) of M functions with N samples
sp_train_matrix <-
  sp_train_wide |>
  select(-data, -id, -group) |>
  as.matrix() |>
  t()

# Convert testing data to matrix (N x M) of M functions with N samples
sp_test_matrix <-
  sp_test_wide |>
  select(-data,-id,-group) |>
  as.matrix() |>
  t()

# Align the training data functions and apply jfPCA
sp_train_esa_fp = paste0(fp_res_sp, "shifted-peaks-train-esa.rds")
if (file.exists(sp_train_esa_fp)) {
  sp_train_esa = readRDS(sp_train_esa_fp)
} else {
  sp_train_esa <-
    veesa::prep_training_data(
      f = sp_train_matrix,
      time = sp_times,
      optim_method = "DPO",
      fpca_method = "jfPCA",
      center_warpings = TRUE
    )
  saveRDS(sp_train_esa, sp_train_esa_fp)
}

```

```

# Align the testing data functions and apply jjPCA based
# on training data application
sp_test_esa_fp = paste0(fp_res_sp, "shifted-peaks-test-esa.rds")
if (file.exists(sp_test_esa_fp)) {
  sp_test_esa = readRDS(sp_test_esa_fp)
} else {
  sp_test_esa <- veesa::prep_testing_data(
    f = sp_test_matrix,
    time = sp_times,
    train_prep = sp_train_esa,
    optim_method = "DPO"
  )
  saveRDS(sp_test_esa, sp_test_esa_fp)
}

if (min(sp_times) != -15 | max(sp_times) != 15) {
  print("Time range changed and need to edit text appropriately.")
}

# Specify the figure font size
f1_fs = 26

# Specify an aspect ratio for all plots relating to the sim data
sp_ar = 0.5

# Extract the aligned functions
colnames(sp_train_esa$alignment$fn) = unique(sp_train_long$id)
sp_aligned_funs <-
  data.frame(sp_train_esa$alignment$fn) |>
  mutate(t = sp_times) |>
  pivot_longer(cols = -t, names_to = "id", values_to = "y_aligned") |>
  mutate(id = as.integer(str_remove(id, "X"))) |>
  right_join(
    sp_train_long |>
      select(id, group) |>
      distinct() |>
      mutate(group = as.character(group)),
    by = "id"
  ) |>
  select(id, group, t, y_aligned)

# Compute cross-sectional mean of the observed functions
sp_cs_means <-
  sp_train_long |>
  group_by(t, group) |>
  summarise(mean_cs = mean(y), .groups = "drop") |>
  mutate(t = round(t,2)) |>
  arrange(group)

# Compute cross-sectional mean of the aligned functions
sp_aligned_means <-
  sp_aligned_funs |>
  group_by(t, group) |>
  summarise(

```

```

mean_aligned = mean(y_aligned),
  .groups = "drop"
) |>
mutate(group = factor(group, levels = c("1", "2")), t = round(t,2)) |>
arrange(group)

# Plot the data
plot_sp <-
ggplot(sp_train_long, aes(x = t, y = y, color = group, group = id)) +
  geom_line(alpha = 0.35) +
  labs(
    x = TeX('$t$'),
    y = TeX('$y$')
  ) +
  scale_color_manual(values = col_2groups) +
  theme_bw(base_family = ff, base_size = f1_fs) +
  theme(
    legend.position = "none",
    aspect.ratio = sp_ar,
    axis.title = element_text(size = f1_fs),
    axis.text = element_text(size = f1_fs),
    title = element_text(size = f1_fs)
  ) +
  ylim(0, 1.4)

# Plot the means
plot_sp_means <-
  full_join(sp$true_means, sp_cs_means, by = c("group", "t")) |>
  full_join(sp_aligned_means, by = c("group", "t")) |>
  pivot_longer(names_to = "mean", cols = mean_true:mean_aligned) |>
  mutate(mean = fct_recode(
    factor(mean),
    "True" = "mean_true",
    "Cross-Sectional" = "mean_cs",
    "Aligned" = "mean_aligned"
  )) |>
  mutate(mean = fct_relevel(mean, "True", "Cross-Sectional", "Aligned")) |>
  ggplot(aes(
    x = t,
    y = value,
    group = factor(mean):factor(group),
    color = group,
    linetype = mean
  )) +
  geom_line(aes(size = mean)) +
  labs(
    y = "y",
    x = TeX('$t$'),
    color = "Group",
    fill = "Group",
    linetype = "Mean Type",
    size = "Mean Type"
  ) +

```

```

scale_color_manual(values = col_2groups) +
scale_fill_manual(values = col_2groups) +
scale_size_manual(values = c(1.5, 1.5, 1.5)) +
scale_linetype_manual(values = c("solid", "dotted", "longdash")) +
theme_bw(base_family = ff, base_size = f1_fs) +
theme(
  aspect.ratio = sp_ar,
  axis.title = element_text(size = f1_fs),
  axis.text = element_text(size = f1_fs),
  title = element_text(size = f1_fs),
  legend.text = element_text(size = f1_fs),
  legend.title = element_text(size = f1_fs),
  legend.key.width = unit(2.5,"cm"),
  legend.position = "bottom"
) +
ylim(0, 1.4) +
guides(
  color = guide_legend(override.aes = list(linewidth = 1.75, alpha = 1)),
  linetype = guide_legend(override.aes = list(linewidth = 1.75, alpha = 1))
)

# Plot the aligned functions
plot_sp_aligned <-
  sp_aligned_funcs |>
  ggplot(aes(x = t, y = y_aligned, group = id, color = group)) +
  geom_line(alpha = 0.35) +
  labs(
    x = TeX('$t$'),
    y = "y"
  ) +
  scale_color_manual(values = col_2groups) +
  theme_bw(base_family = ff, base_size = f1_fs) +
  theme(
    legend.position = "none",
    aspect.ratio = sp_ar,
    axis.title = element_text(size = f1_fs),
    axis.text = element_text(size = f1_fs),
    title = element_text(size = f1_fs)
  ) +
  ylim(0, 1.4)

# Plot the warping functions
plot_sp_warping_FUNS <-
  sp_train_esa$alignment$warping_FUNCTIONS |>
  t() |>
  data.frame() |>
  mutate(id = 1:n()) |>
  pivot_longer(cols = -id, names_to = "index", values_to = "w") |>
  bind_cols(sp_train_long |> select(group, t)) |>
  ggplot(aes(x = t, y = w, group = id, color = group)) +
  geom_line(alpha = 0.35) +
  scale_color_manual(values = col_2groups) +
  theme_bw(base_family = ff, base_size = f1_fs) +

```

```

theme(
  legend.position = "none",
  aspect.ratio = sp_ar,
  axis.title = element_text(size = f1_fs),
  axis.text = element_text(size = f1_fs),
  title = element_text(size = f1_fs)
) +
labs(
  x = TeX("$t$"),
  y = "Warping function"
)

# Extract the legend
legend <-
get_plot_component(
  plot_sp_means,
  'guide-box-bottom',
  return_all = TRUE
)
plot_sp_means <- plot_sp_means + theme(legend.position = "none")

# Join the plots
plot_grid(
  plot_grid(
    plot_sp,
    plot_sp_means,
    plot_sp_aligned,
    plot_sp_warping_funs,
    ncol = 2,
    label(fontfamily = ff,
    label_size = f1_fs
  ),
  legend,
  ncol = 1,
  rel_heights = c(0.95,0.05)
)

# Specify the figure font size
f2_fs = 16

# Create figure
sp_plot_pcdirs <-
plot_pc_directions(
  fpc = 1,
  fdasrvf = sp_train_esa$fPCA_res,
  fPCA_method = "jfpca",
  times = -sp_times,
  linesizes = rep(0.75,5),
  alpha = 0.9
) +
theme_bw(base_family = ff, base_size = f2_fs) +
theme(
  strip.background = element_rect(color = "white", fill = "white"),
  aspect.ratio = sp_ar,

```

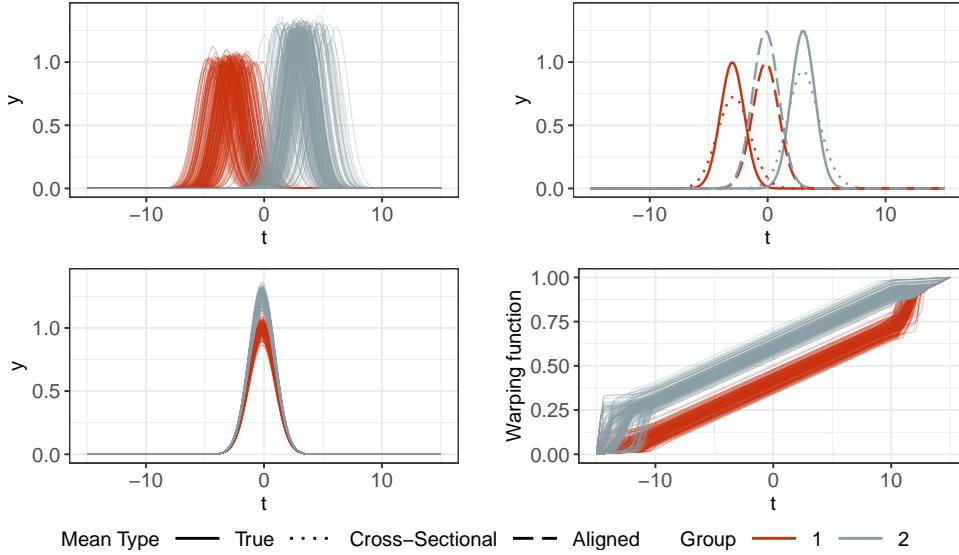


Figure 1: *Shifted Peaks Training Data*. The simulated training data functions (top left), true, cross-sectional, and aligned functional means (top right), aligned functions (bottom left), and warping functions (bottom right).

```

axis.title = element_text(size = f2_fs),
axis.text = element_text(size = f2_fs),
legend.text = element_text(size = f2_fs*0.9),
strip.text = element_text(size = f2_fs),
legend.position = "none",
legend.key.width = unit(1.5, 'cm')
) +
scale_color_manual(values = col_pcdir_2sd) +
labs(x = TeX('$t$'), y = TeX('$y_g(t)$'))

sp_train_esa_for_plot = sp_train_esa$fPCA_res
sp_train_esa_for_plot$f_pca = -sp_train_esa_for_plot$f_pca

sp_plot_pcdiffs <-
plot_pc_diffs(
  fpc = 1,
  fdasrvf = sp_train_esa_for_plot,
  fPCA_method = "jfpca",
  times = -sp_times,
  linesizes = rep(0.75,4),
  mean_linesize = 0.75,
  alpha = 0.9,
  alpha_fill = 0.1
) +
theme_bw(base_family = ff, base_size = f2_fs) +
theme(
  strip.background = element_rect(color = "white", fill = "white"),
  aspect.ratio = sp_ar,
  axis.title = element_text(size = f2_fs),
  axis.text = element_text(size = f2_fs),

```

```

        legend.text = element_text(size = f2_fs),
        strip.text = element_text(size = f2_fs),
        legend.position = "bottom",
        legend.key.width = unit(1.5, 'cm')
    ) +
    scale_color_manual(values = col_pcdir_2sd[c(1:2,4:5)]) +
    scale_fill_manual(values = col_pcdir_2sd[c(1:2,4:5)]) +
    labs(x = TeX('t'), y = TeX('y_g(t)'))

# Extract the legend
sp_plot_pc_legend <-
  get_plot_component(
    sp_plot_pcdiffs,
    'guide-box-bottom',
    return_all = TRUE
  )
sp_plot_pcdiffs <- sp_plot_pcdiffs + theme(legend.position = "none")

# Join the plots
plot_grid(
  plot_grid(
    sp_plot_pcdirs,
    sp_plot_pcdiffs,
    ncol = 2,
    label_fontfamily = ff,
    label_size = f2_fs
  ),
  sp_plot_pc_legend,
  ncol = 1,
  rel_heights = c(0.925,0.075)
)

```

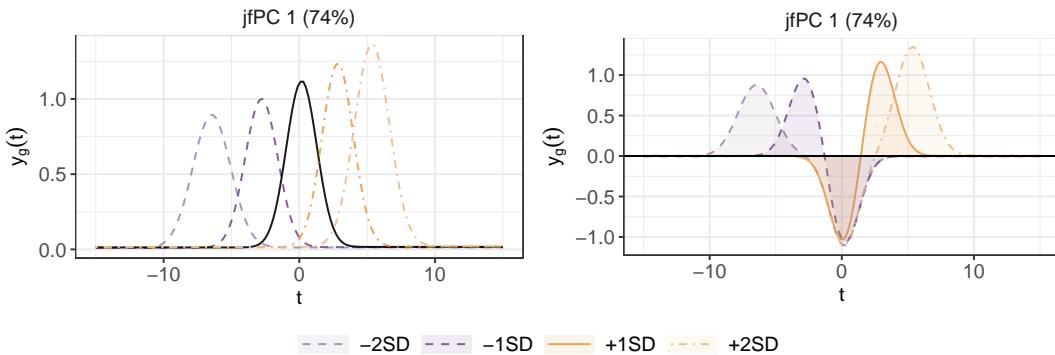


Figure 2: *Shifted Peaks Data First jfPC*. (Left) Principal direction plot for understanding the functional variability captured by jfPC 1 from the shifted peaks data. (Right) The corresponding principal differences plot for jfPC 1.

```

# Prepare data for model
sp_train_model_data <-
  sp_train_esa$fPCA_res$coeff |>
  data.frame() |>
  mutate(group = factor(sp_train_wide$group))
sp_test_model_data <-

```

```

t(sp_test_esa$coef) |>
  data.frame() |>
  mutate(group = factor(sp_test_wide$group))

# Random forest on jfPCA with aligned data
sp_rf_jfpca_fp = paste0(fp_res_sp, "shifted-peaks-rf-jfpca.rds")
if (file.exists(sp_rf_jfpca_fp)) {
  sp_rf_jfpca = readRDS(sp_rf_jfpca_fp)
} else {
  set.seed(20210301)
  sp_rf_jfpca <-
    randomForest::randomForest(
      formula = group ~ .,
      data = sp_train_model_data,
      importance = TRUE)
  saveRDS(sp_rf_jfpca, sp_rf_jfpca_fp)
}

# Compute the model predictions on the test data
sp_train_pred_jfpca <-
  predict(sp_rf_jfpca, sp_train_model_data |> select(-group))
sp_test_pred_jfpca <-
  predict(sp_rf_jfpca, sp_test_model_data |> select(-group))

# Compute the accuracy on the training data
sp_train_acc_jfpca <-
  sum(sp_train_pred_jfpca == sp_train_model_data$group) / sp_ntrain
sp_test_acc_jfpca <-
  sum(sp_test_pred_jfpca == sp_test_model_data$group) / sp_ntest

# Specify the number of repetitions used to compute PFI with the example data
sp_K = 10

# Compute PFI using accuracy with the VEESA pipeline (training data)
sp_pfi_acc_jfpca_fp = paste0(fp_res_sp, "shifted-peaks-pfi-acc-jfpca.rds")
if (file.exists(sp_pfi_acc_jfpca_fp)) {
  sp_pfi_acc_jfpca = readRDS(sp_pfi_acc_jfpca_fp)
} else {
  set.seed(20210921)
  sp_pfi_acc_jfpca <-
    compute_pfi(
      x = sp_train_model_data |> select(-group),
      y = sp_train_model_data$group,
      f = sp_rf_jfpca,
      K = sp_K,
      metric = "accuracy"
    )
  saveRDS(sp_pfi_acc_jfpca, sp_pfi_acc_jfpca_fp)
}

# Compute PFI using accuracy with the VEESA pipeline (testing data)
sp_pfi_acc_jfpca_test_fp <-
  paste0(fp_res_sp, "shifted-peaks-pfi-acc-jfpca-test.rds")
if (file.exists(sp_pfi_acc_jfpca_test_fp)) {

```

```

sp_pfi_acc_jfpca_test = readRDS(sp_pfi_acc_jfpca_test_fp)
} else {
  set.seed(20210921)
  sp_pfi_acc_jfpca_test <-
    compute_pfi(
      x = sp_test_model_data |> select(-group),
      y = sp_test_model_data$group,
      f = sp_rf_jfpca,
      K = sp_K,
      metric = "accuracy"
    )
  saveRDS(sp_pfi_acc_jfpca_test, sp_pfi_acc_jfpca_test_fp)
}

# Put pfi and proportion of variation in a data frame
sp_prop_var_pfi <-
  data.frame(
    fpc = 1:length(sp_times),
    prop_var = (sp_train_esa$fPCA_res$latent) ^ 2 /
      sum((sp_train_esa$fPCA_res$latent) ^ 2),
    pfi_train = sp_pfi_acc_jfpca$pfi,
    pfi_test = sp_pfi_acc_jfpca_test$pfi
  )

# Extract the jfPC with the highest PFI
sp_train_top_fpc <-
  sp_prop_var_pfi |> filter(pfi_train == max(pfi_train)) |> pull(fpc)
sp_train_top_pfi <-
  sp_prop_var_pfi |> filter(pfi_train == max(pfi_train)) |> pull(pfi_train)
sp_test_top_fpc <-
  sp_prop_var_pfi |> filter(pfi_test == max(pfi_test)) |> pull(fpc)
sp_test_top_pfi <-
  sp_prop_var_pfi |> filter(pfi_test == max(pfi_test)) |> pull(pfi_test)

# Put PFI reps in a data frame
sp_prop_var_pfi_reps <-
  data.frame(
    fpc = 1:length(sp_times),
    pfi_train = t(sp_pfi_acc_jfpca$pfi_single_reps),
    pfi_test = t(sp_pfi_acc_jfpca_test$pfi_single_reps)
  )

# Specify the figure font size
f3_fs = 17

sp_prop_var_pfi_single_long <-
  sp_prop_var_pfi |>
  pivot_longer(cols = -fpc, names_to = "variable", values_to = "single") |>
  separate(variable, into = c("variable", "number"), sep = "\\.") |>
  select(-number)

sp_prop_var_pfi_reps_long <-
  sp_prop_var_pfi_reps |>
  pivot_longer(cols = -fpc, names_to = "variable", values_to = "reps") |>

```

```

separate(variable, into = c("variable", "number"), sep = "\\.") |>
  select(-number)

sp_prop_var_pfi_long <-
  full_join(
    sp_prop_var_pfi_single_long,
    sp_prop_var_pfi_reps_long,
    by = join_by(fpc, variable)
  ) |>
  mutate(
    variable = fct_relevel(variable, "prop_var", "pfi_train", "pfi_test"),
    variable = fct_recode(
      variable,
      "Proportion of \nvariation" = "prop_var",
      "PFI \n(training)" = "pfi_train",
      "PFI \n(testing)" = "pfi_test"
    )
  )

ggplot(sp_prop_var_pfi_long |> filter(fpc < 50)) +
  geom_boxplot(
    aes(x = fpc, y = reps, group = fpc)
  ) +
  geom_point(
    aes(x = fpc, y = single),
    size = 2.5,
    shape = 18,
    color = "steelblue"
  ) +
  facet_grid(variable ~ ., scales = "free_y", switch = "y") +
  labs(x = "jfPC") +
  theme_bw(base_family = ff, base_size = f3_fs) +
  theme(
    strip.placement = "outside",
    strip.background = element_rect(color = "white", fill = "white"),
    axis.title.y = element_blank(),
    axis.title.x = element_text(size = f3_fs),
    axis.text = element_text(size = f3_fs),
    title = element_text(size = f3_fs),
    strip.text = element_text(size = f3_fs),
    strip.text.y.left = element_text(angle = 0)
  )
)

```

H-CT Data Analyses

```

## -----
## 
## THE VEESA PIPELINE FOR THE H-CT DATA WAS COMPUTATIONALLY INTENSIVE, SO IT
## WAS RUN USING PYTHON CODE TO SPEED UP THE PROCESS.
##
## THE PYTHON SCRIPTS USED FOR THIS ANALYSIS CAN BE FOUND IN THE FOLDER
## code/03-paper-hct-extra. THIS CODE MUST BE RUN BEFORE RUNNING THE REMAINDER

```

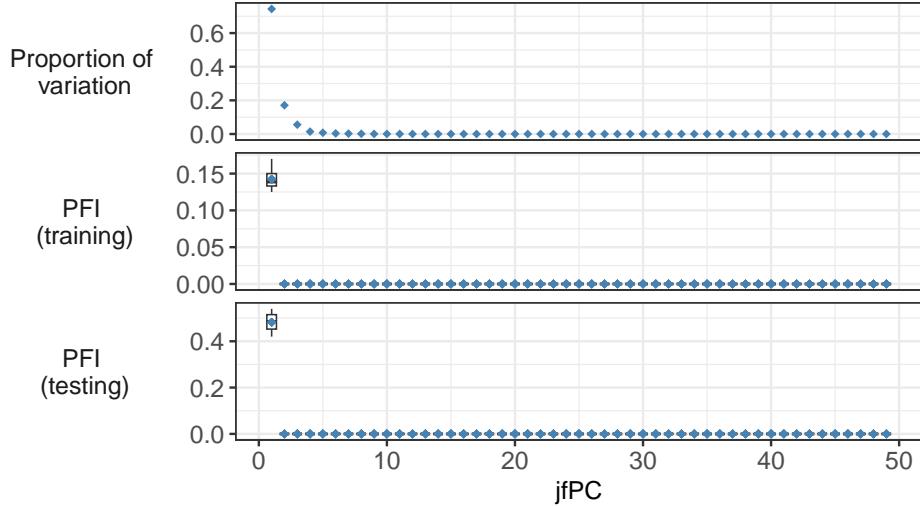


Figure 3: *Shifted Peaks Data jfPC Metrics.* (Top) Proportion of variation explained by the jfPCs. (Middle and Bottom) Blue diamonds represent PFI values from the training and testing data, respectively. Boxplots represent the variability across repetitions.

```

## OF THE CODE IN THIS FILE.

##
## THE NUMBERS AT THE BEGINNING OF THE FILE NAMES INDICATE THE ORDER IN WHICH
## THE SCRIPTS SHOULD BE RUN. FOR EASE, THE BASH SCRIPT PROVIDED CAN BE
## USED TO RUN ALL HCT PYTHON SCRIPTS (run-hct-scripts.sh).
##
## -----
#
# Train/Test data dimensions
hct_train_dims = py_load_object(paste0(fp, "data/hct-train-dims.pkl"))
hct_test_dims = py_load_object(paste0(fp, "data/hct-test-dims.pkl"))
hct_total_dims = list()
hct_total_dims$full = hct_train_dims$train + hct_test_dims$test
hct_total_dims$h2o = hct_train_dims$h2o + hct_test_dims$h2o
hct_total_dims$exp = hct_train_dims$exp + hct_test_dims$exp
hct_total_dims$hp100 = hct_train_dims$hp100 + hct_test_dims$hp100
hct_total_dims$hp50 = hct_train_dims$hp50 + hct_test_dims$hp50
hct_total_dims$hp10 = hct_train_dims$hp10 + hct_test_dims$hp10

# Load subset of training data
hct_train_sub = py_load_object(paste0(fp, "data/hct-sub-train.pkl"))

# Aligned/warped training data
hct_train_align_sub <-
  py_load_object(
    paste0(fp_res_hct, "hct-sub-train-aligned-centered-sparam20.pkl")
  )
hct_train_warp_fun_sub <-
  py_load_object(
    paste0(fp_res_hct, "hct-sub-train-warping-centered-sparam20.pkl")
  )

# Principal components from training data

```

```

hct_train_jfpca_pcs <-
  py_load_object(
    paste0(fp_res_hct, "hct-train-jfpca-centered-pc-dirs-sparam20.pkl"))
  )
hct_train_vfpca_pcs <-
  py_load_object(paste0(fp_res_hct, "hct-train-vfpca-pc-dirs-sparam20.pkl"))

# Latent values from training data
hct_train_jfpca_latent <-
  py_load_object(paste0(fp_res_hct, "hct-train-jfpca-latent-sparam20.pkl"))
hct_train_vfpca_latent <-
  py_load_object(paste0(fp_res_hct, "hct-train-vfpca-latent-sparam20.pkl"))

# Model metrics
hct_jfpca_pred_metrics_train <-
  py_load_object(
    paste0(fp_res_hct, "hct-train-pred-and-metrics-jfpca-sparam20.pkl"))
hct_jfpca_pred_metrics_test <-
  py_load_object(
    paste0(fp_res_hct, "hct-test-pred-and-metrics-jfpca-sparam20.pkl"))
  )
hct_vfpca_pred_metrics_train <-
  py_load_object(
    paste0(fp_res_hct, "hct-train-pred-and-metrics-vfpca-sparam20.pkl"))
  )
hct_vfpca_pred_metrics_test <-
  py_load_object(
    paste0(fp_res_hct, "hct-test-pred-and-metrics-vfpca-sparam20.pkl"))
  )

# PFI
hct_jfpca_nn_pfi <-
  py_load_object(paste0(fp_res_hct, "hct-test-pfi-jfpca-sparam20.pkl"))
hct_vfpca_nn_pfi <-
  py_load_object(paste0(fp_res_hct, "hct-test-pfi-vfpca-sparam20.pkl"))

hct_train_align_sub
```

	0	1	2	3	4
## 0	0.122623232	0.1108951089	0.1447043551	0.2006904923	0.2583458661
## 1	-0.823329355	-0.7710788621	-0.7071462189	-0.6356846210	-0.5539838894
## 2	-1.419142947	-1.3905263215	-1.3439348738	-1.2570076642	-1.1780709009
## 3	-1.005100281	-1.0578867273	-1.0104887250	-0.9465632876	-0.8861466894
## 4	0.430562745	0.4664008444	0.5117648264	0.5734660170	0.6479836293
## 5	0.449798961	0.3389391632	0.3835916638	0.4420519383	0.5065117461
## 6	0.625186363	0.6528704208	0.6946082088	0.7602509384	0.8128776239
## 7	0.234464383	0.2787310173	0.3347638659	0.4161275948	0.5176339539
## 8	-0.766151088	-0.7216473885	-0.6621719152	-0.5918333750	-0.5315153148
## 9	0.242932501	0.2774738608	0.3340666827	0.4415405996	0.5403270032
## 10	-0.256468889	-0.2261895477	-0.1807347598	-0.0967129686	-0.0098607898
## 11	1.658873900	1.6733136015	1.7082178293	1.7500047342	1.7958866302
## 12	-1.300087488	-1.2736848771	-1.2348977614	-1.1803228382	-1.1324834004
## 13	-0.683917514	-0.6494753369	-0.6030329110	-0.5460672835	-0.4957965812
## 14	-1.162254805	-1.1101323413	-1.0453906914	-0.9627734514	-0.8708611526

```

## 15  0.023942711  0.0327282933  0.0694131215  0.1172740092  0.1709691825
## 16 -1.911159480 -1.8609541722 -1.7958538015 -1.7182612499 -1.6311728277
## 17 -0.105398250 -0.5966579944 -0.5597353007 -0.5054967535 -0.4470258760
## 18  0.243182694  0.1499804941  0.1699016630  0.2036033322  0.2420314132
## 19  0.085475041  0.1296690503  0.1856099702  0.2668496486  0.3681133138
## 20  0.561183126  0.6009835402  0.6481824800  0.7021578235  0.7655793462
## 21  1.378935102  1.2412866147  1.2736371971  1.3186204695  1.3515638255
## 22  1.314121953  1.3686038529  1.4353130621  1.5099879370  1.6092000376
## 23 -0.359069536 -0.3009288037 -0.2279673961 -0.1588883630 -0.0982499147
## 24  0.536861322  0.5828777193  0.6471251161  0.7343468461  0.8120970422
## 25 -0.932009574 -0.9123830670 -0.8805443813 -0.8300266862 -0.7823183523
## 26  1.050394742  0.9594936434  0.9892261152  1.0318209237  1.0781945164
## 27  0.531607961  0.5145760395  0.5527631385  0.6031869898  0.6594356088
## 28  0.721546440  0.7227436385  0.7696740561  0.8432873659  0.9078962237
## 29 -0.806875806 -0.7718240978 -0.7295552256 -0.6731755383 -0.6152977105
## 30  1.372485279  1.3656719700  1.4258233269  1.5097307376  1.5879004397
## 31  0.268881683  0.3141321840  0.3749487241  0.4487060205  0.5134967100
## 32 -1.312826078 -1.2623174371 -1.2007282196 -1.1331331609 -1.0700955732
## 33  1.077642781  1.1213251225  1.1766183720  1.2517585875  1.3422156285
## 34 -0.580787938 -0.7027841906 -0.6726783996 -0.6240802650 -0.5697336029
## 35  0.079859733  0.1637536411  0.2691774745  0.3698494383  0.4586190871
## 36 -1.424071907 -1.3813339750 -1.3242019771 -1.2564724915 -1.1981228559
## 37  0.026353666  0.0929252001  0.1766169839  0.2567487754  0.3275044864
## 38  0.057398596  0.0716907253  0.1059205161  0.1501892769  0.1965177511
## 39 -0.175190694 -0.1553473502 -0.1246852531 -0.0644483117 -0.0018500397
## 40  2.140681048  2.1741716587  2.2279514635  2.2956771987  2.3637041858
## 41 -0.174672999 -0.0898707200  0.0166711239  0.1182715093  0.2077957012
## 42 -2.802556593 -2.7874334244 -2.7412042485 -2.6670290617 -2.5896389602
## 43  0.789418081  0.8414602553  0.9069087075  0.9697068473  1.0252184885
## 44  1.346209950  1.3981998319  1.4631133877  1.5487609152  1.6488908168
## 45  1.125591828  1.0470371495  1.0822779745  1.1444287623  1.2168460611
## 46  1.142703160  1.1824405657  1.2327403026  1.2998568510  1.3784255274
## 47  0.154269068  0.1538871894  0.1907474908  0.2497120807  0.3232090687
## 48  1.126143932  1.1687571682  1.2260979887  1.2958835089  1.3571706939
## 49  0.678578324  0.7152529714  0.7616758583  0.8170427996  0.8786725032
## 50  0.314195873  0.3556020557  0.4111364385  0.4778056503  0.5356896598
## 51  0.387571091  0.4328400929  0.4875143939  0.5461427474  0.6154825658
## 52  0.372711227  0.4016654972  0.4455105892  0.5283722750  0.6092243473
## 53  0.773336011  0.8348153181  0.9075892286  0.9825089971  1.0682538475
## 54 -0.584859146 -0.5585546752 -0.5119565467 -0.4170084368 -0.3392397639
## 55 -0.333256775 -0.3946304190 -0.3498133001 -0.2862316270 -0.2257719298
## 56 -1.733001855 -1.9346097839 -1.9006886793 -1.8573496534 -1.8073899201
## 57 -0.511433699 -0.4625495850 -0.3917885770 -0.2890036159 -0.2014109680
## 58 -0.720016445 -0.6824078935 -0.6332744402 -0.5713687825 -0.4838002301
## 59  0.541289928  0.5983119540  0.6748091021  0.7666988642  0.8464470289
## 60 -1.238747576 -1.2630755193 -1.2250284934 -1.1743882303 -1.1207736602
## 61  1.308460924  1.2271686937  1.2570244689  1.3047381281  1.3557588222
## 62  0.478845183  0.5272311532  0.5860726260  0.6719066404  0.7770338741
## 63 -0.320449798 -0.3002626501 -0.2699843136 -0.2092339568 -0.1654104123
## 64  0.029531506 -0.3987213553 -0.3532764138 -0.2759776504 -0.1924852859
## 65 -0.836573561 -1.0465353402 -1.0133192459 -0.9640692406 -0.9116861840
## 66 -0.728161765 -0.7654288001 -0.7246033285 -0.6611159424 -0.5988117564
## 67  0.709508875  0.7368197107  0.7825255375  0.8700245168  0.9465232028
## 68 -0.632921852 -0.6089756370 -0.5673722077 -0.4844229038 -0.4001766733

```

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## 69  0.673425750  0.6721477859  0.7189373819  0.7603293067  0.7982989062
## 70  1.196437126  1.2281352212  1.2835810510  1.3611083134  1.4474279681
## 71 -0.910915667 -0.8838807735 -0.8379136711 -0.7540740352 -0.6802440479
## 72  1.489033026  1.5278539570  1.5769936169  1.6424608482  1.7186153393
## 73 -0.304549091 -0.2647210707 -0.2117565450 -0.1503826370 -0.0985743354
## 74  0.900329536  0.9414038540  0.9933958592  1.0739320183  1.1814355688
## 75 -0.752594782 -0.7085327899 -0.6495909909 -0.5795565505 -0.5191812308
## 76  0.373096183  0.4079012312  0.4594580548  0.5301598882  0.5938755150
## 77 -0.734212831 -0.6780477146 -0.6069537289 -0.5045318191 -0.3786553484
## 78 -0.232504881 -0.1928380466 -0.1338806525 -0.0456076618  0.0285182153
## 79  0.173879544  0.1085213084  0.1418309865  0.1885618440  0.2462632354
## 80 -0.650401601 -0.6077508736 -0.5508287553 -0.4838531534 -0.4265874342
## 81  1.556723727  1.2096619867  1.2489570806  1.3087326868  1.3771003810
## 82 -0.897569478 -0.8508165627 -0.7939691451 -0.7224123262 -0.6434537752
## 83 -1.663768288 -1.6344011733 -1.5864530750 -1.4994708245 -1.4256261057
## 84  0.789563065  0.8689213768  0.9630439479  1.0610842093  1.1481407678
## 85  0.260074144  0.2812197657  0.3250300752  0.3928034235  0.4632537606
## 86  0.673708765  0.7018563387  0.7438374395  0.8072056191  0.8693786794
## 87 -1.997600241 -1.9151661247 -1.8116673817 -1.7133712843 -1.6269441967
## 88 -0.862916275 -0.8303899150 -0.7822637580 -0.7161343676 -0.6533928494
## 89 -1.319991124 -1.2660904676 -1.1978628426 -1.1076286990 -1.0036080137
## 90  1.339859377  1.2271736968  1.2546693513  1.2882666694  1.3291196602
## 91  0.306337101  0.1524707146  0.2021349567  0.2612949952  0.3107922079
## 92  1.385872735  1.3984955256  1.4516945670  1.5232267036  1.5893017361
## 93 -1.284741173 -1.4141965074 -1.3690285642 -1.3055380804 -1.2453102062
## 94 -2.143709155 -2.0875701001 -2.0165091034 -1.9341514622 -1.8450724854
## 95 -0.225245926 -0.1952189151 -0.1505439348 -0.0840095601 -0.0147890631
## 96  0.580072169  0.5173613363  0.5589810981  0.6057358435  0.6537852438
## 97  1.821418236  1.5929077758  1.6340877203  1.6816000130  1.7386700508
## 98 -1.312172862 -1.2736125567 -1.2135403168 -1.1356972711 -1.0514429831
## 99 -0.126392445 -0.1030173856 -0.0623586639  0.0252802264  0.1175734216
## 100 -0.906016256 -0.8446715205 -0.7689260570 -0.6745798320 -0.5688992917
## 101 -0.418960114 -0.3944865326 -0.3544330864 -0.2864095851 -0.2255041834
## 102  0.934990450  0.9615549307  1.0013857467  1.0628679187  1.1228853476
## 103 -2.235125083 -2.3101562896 -2.2710873905 -2.2160764872 -2.1496413601
## 104  0.493636527  0.3395034971  0.3851495823  0.4540398670  0.5218201679
## 105  0.221173628  0.1585486229  0.1894417742  0.2364542593  0.2884576103
## 106 -0.245773136 -0.1960808755 -0.1374426619 -0.0770240240 -0.0019684551
## 107  0.345854206  0.3656828876  0.3957280665  0.4538225855  0.5164794693
## 108  1.307793868  1.0733081420  1.1018797040  1.1473331815  1.1969025949
## 109 -0.576872615 -0.5611743272 -0.5115037922 -0.4349822328 -0.3552915000
## 110 -0.312059822 -0.2610511956 -0.1964843119 -0.1031490760  0.0125567888
## 111  0.544552451  0.4863329245  0.5351861371  0.5974667768  0.6601237348
## 112 -0.448509277 -0.3886244521 -0.3128220476 -0.2094993868 -0.0839905492
## 113  0.379094503  0.4104221545  0.4577416118  0.5332540227  0.6143544708
## 114 -0.004570939  0.0148436874  0.0513272735  0.1071219536  0.1598240669
## 115  0.528770926  0.5690812677  0.6232222538  0.6886781105  0.7459831239
## 116 -1.019913030 -0.9967621892 -0.9563942650 -0.8630179154 -0.7546721710
## 117 -0.209796450 -0.3774469170 -0.3509856955 -0.3128194570 -0.2645735223
## 118 -1.046613275 -0.9994769722 -0.9398116881 -0.8706053673 -0.7956885864
## 119  0.243491607  0.2524881703  0.2944911745  0.3524999699  0.4082107047
## 120  1.429646651  1.1663274857  1.2290751898  1.3133065427  1.3890426296
## 121  1.768328588  1.7923986344  1.8322365696  1.8678060359  1.8866149277
## 122  0.579216314  0.4378036582  0.4871729308  0.5512045390  0.6122836199

```

```

## 123 -1.11111209 -1.1177761996 -1.0760167512 -1.0053629536 -0.9249955816
## 124 -0.737255245 -0.6888394036 -0.6285721019 -0.5552459632 -0.4747349419
## 125 -1.605525831 -1.5679193484 -1.5203169407 -1.4458846767 -1.3451423969
## 126 -0.749092841 -0.7116843002 -0.6643324487 -0.5955905759 -0.5096235515
## 127 0.028989605 0.0648047325 0.1101396372 0.1703094290 0.2398707183
## 128 0.720924451 0.1861912011 0.2215293183 0.2697516709 0.3192066129
## 129 0.554632809 0.5223983460 0.5796261102 0.6686494656 0.7683628861
## 130 -0.225617328 -0.1538498597 -0.0636981187 0.0221908565 0.0978335080
## 131 0.677130556 0.6953637473 0.7336184503 0.7975309625 0.8646803779
## 132 1.563277958 1.5847087374 1.6425552119 1.7234960342 1.8058389711
## 133 0.189784937 0.1081053815 0.1502693378 0.2071716685 0.2720067722
## 134 -1.978967620 -1.9356212875 -1.8816827652 -1.8195793834 -1.7411719212
## 135 -0.404938351 -0.3436391717 -0.2660464727 -0.1755940110 -0.0771744199
## 136 0.397840485 0.3379245336 0.3759837446 0.4292027697 0.4879499091
## 137 -0.457504107 -0.4435651626 -0.3906059880 -0.3128223722 -0.2254675963
## 138 0.186310854 0.0875672267 0.1141924196 0.1518871060 0.1916561986
## 139 1.135122180 1.1463514383 1.1954555363 1.2489840555 1.3021024941
## 140 0.551180348 0.5951009213 0.6506957256 0.7317108683 0.8334175526
## 141 0.769052048 0.7870437193 0.8269925739 0.8865327590 0.9536143598
## 142 -1.221169210 -1.2053212087 -1.1597523642 -1.1000147616 -1.0388937060
## 143 -0.244382734 -0.1958588859 -0.1344372422 -0.0446922948 0.0684446592
## 144 -0.456251948 -0.4270930561 -0.3829124515 -0.3112218368 -0.2355012515
## 145 -2.185961511 -2.1619574965 -2.0995289461 -2.0215436869 -1.9565799640
## 146 1.052516830 1.0820007177 1.1244939521 1.1561370593 1.1772797215
## 147 1.980015720 1.5853222163 1.6243186563 1.6796239616 1.7356527911
## 148 -1.975261846 -1.8990074025 -1.8032252331 -1.7120073499 -1.6316878065
## 149 0.675776908 0.5826382155 0.6109217949 0.6592006908 0.7115424696
## 150 -1.682384425 -1.6439394319 -1.5924705189 -1.5312822148 -1.4788318783
## 151 2.032987572 2.0271655035 2.0637165427 2.1261182768 2.1818450382
## 152 0.380355646 0.1531549770 0.1989491175 0.2458709855 0.2950936432
## 153 -1.445974321 -1.4173732188 -1.3695195735 -1.2750093209 -1.1868291325
## 154 0.666068690 0.6341182123 0.6706262649 0.7144001203 0.7633719189
## 155 -1.947254629 -1.9140074026 -1.8682546757 -1.8102883127 -1.7567626843
## 156 -1.254619150 -1.2304465131 -1.1974479396 -1.1435774735 -1.0915420382
## 157 2.197079504 2.1942236045 2.2173292989 2.2500163494 2.2861111075
## 158 -0.555634979 -0.5071093196 -0.4427679820 -0.3696010350 -0.3096800252
## 159 -0.743526164 -0.6970625478 -0.6382487525 -0.5598277541 -0.4681299464
## 160 0.189906886 0.2397932849 0.3073800301 0.3921108994 0.4686236228
## 161 -0.307584292 -0.2730579110 -0.2293543059 -0.1704501879 -0.1003173615
## 162 1.830718926 1.8800307136 1.9424497342 2.0292818379 2.1381007784
## 163 -0.314866658 -0.2861332603 -0.2427634996 -0.1616200218 -0.0742941117
## 164 0.729615158 0.7366682614 0.7630149860 0.8108371229 0.8708796937
## 165 0.238254795 0.2799208257 0.3390298525 0.4031993592 0.4755010527
## 166 -0.549244203 -0.6652134051 -0.6116566397 -0.5435059354 -0.4764504704
## 167 0.851180322 0.4392886959 0.4882496499 0.5487104592 0.6115772289
## 168 1.309684475 1.0878948870 1.1224389036 1.1695717185 1.2203243994
## 169 0.615359495 0.6533978228 0.7015468608 0.7664244561 0.8435394910
## 170 0.324604093 0.3421112450 0.3849646869 0.4490865823 0.5074506987
## 171 -0.190218981 -0.1358443199 -0.0684531761 0.0176142324 0.1146989033
## 172 0.772259201 0.3926441552 0.4293121588 0.4825538526 0.5392034472
## 173 0.206415617 0.1606096826 0.1931374824 0.2402553781 0.2908697177
## 174 0.391426199 0.3169544656 0.3555049141 0.4120486612 0.4721676322
## 175 0.794744216 0.8929788650 1.0165572634 1.1353571135 1.2404760264
## 176 0.131703820 0.1674737326 0.2178897077 0.2888517983 0.3540948764

```

```

## 177  0.409233231  0.4565120185  0.5163576603  0.5857413738  0.6608147467
## 178 -0.328972782 -0.2748735610 -0.2090006376 -0.1368497314 -0.0697295179
## 179 -0.653024833 -0.6338161211 -0.6048774560 -0.5596016176 -0.5091249870
## 180 -0.071964035 -0.0478675088  0.0079327466  0.0779892768  0.1598647537
## 181 -1.127826968 -1.1093439749 -1.0722702231 -1.0152058018 -0.9472935728
## 182  2.067590929  2.0914166278  2.1317841450  2.2115331274  2.2828891563
## 183 -0.325987904 -0.2901597732 -0.2420886436 -0.1801174508 -0.1065154515
## 184 -0.932307971 -0.9021257612 -0.8564148450 -0.7828159976 -0.7083950483
## 185  0.221196738 -0.0369662685  0.0124232713  0.0803870959  0.1475800771
## 186 -1.213576508 -1.1483481202 -1.0671358598 -0.9890543949 -0.9214042615
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## 395 -0.702329996 -0.6565180092 -0.5930243174 -0.5091599938 -0.4357599647
## 396 1.878512455 1.8966888041 1.9367593363 1.9934686881 2.0526669292
## 397 0.435362567 0.4905867639 0.5643585003 0.6513312003 0.7254924956
## 398 0.389620611 0.4098289308 0.4444876497 0.5176555760 0.5911616178
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## 400 -0.733696540 -0.6896653392 -0.6339305030 -0.5696629808 -0.5005157254
## 401 1.199465116 1.2427131848 1.3057611421 1.3987618922 1.4763491749
## 402 0.395322818 0.4720954469 0.5692744883 0.6827063653 0.8062923264
## 403 1.518369922 1.5251743885 1.5404852436 1.5670687722 1.6028718906
## 404 0.662780688 0.6972405016 0.7478473577 0.8082414147 0.8706021004
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## 409 0.990559192 1.0133938922 1.0472772320 1.0883169433 1.1337658812
## 410 -0.958195062 -0.9403141094 -0.8994767397 -0.8458527081 -0.7860109500
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## 450 0.706902007 0.4558009512 0.4883111429 0.5265409572 0.5650364632
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## 605 1.657694887 1.7041964995 1.7630583908 1.8395058798 1.9301777536
## 606 -0.163103407 -0.1198082154 -0.0601425511 0.0188444764 0.0914237780
## 607 0.201230217 0.2593764600 0.3329781628 0.4193152455 0.5138523702
## 608 -2.014940472 -1.9986161189 -1.9682093561 -1.9242811430 -1.8740059046

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## 609 -0.127985437 -0.0957807103 -0.0517619464 0.0046183522 0.0549783141
## 610 0.670291737 0.7114767882 0.7700184340 0.8384448486 0.9097839017
## 611 0.436682178 0.4412364229 0.4678212514 0.5044855949 0.5479628697
## 612 -0.225049859 -0.1712364292 -0.1031192160 -0.0227970005 0.0656151761
## 613 0.716407401 0.6906439707 0.7197720053 0.7585195786 0.8024341637
## 614 0.063033718 0.1225846183 0.1979643398 0.2852176651 0.3794696640
## 615 1.221127034 1.1514719642 1.1889852550 1.2328513938 1.2788110027
## 616 0.079289368 0.1118113359 0.1579538274 0.2241741679 0.2863399328
## 617 0.627161104 0.6497232916 0.6840625373 0.7289964231 0.7765463542
## 618 1.409781777 1.4571817328 1.5171807508 1.5876031589 1.6647600192
## 619 0.346666417 0.3821284733 0.4318510966 0.4888762299 0.5500565146
## 620 -0.030232600 0.0328713723 0.1127485849 0.2068360805 0.3102883510
## 621 0.023268897 0.0734114638 0.1368820864 0.2110195442 0.2918507060
## 622 1.376337912 1.4126447739 1.4586021175 1.5180400713 1.5881102754
## 623 1.625036631 1.6536422527 1.6906389556 1.7287832329 1.7646610335
## 624 0.999207978 1.0233250877 1.0545184434 1.0884576083 1.1245382040
## 625 0.697216424 0.7340130146 0.7805902578 0.8498170743 0.9425331432
## 626 -0.245969694 -0.2242184060 -0.1948226656 -0.1604067788 -0.1212688375
## 627 -0.492927242 -0.4505848741 -0.3969877677 -0.3435043422 -0.2817703155
## 628 1.409639243 1.2397054933 1.2808888884 1.3329003261 1.3905409196
## 629 -0.583836796 -0.5495872612 -0.5016357300 -0.4365576218 -0.3792543258
## 630 2.902209332 2.6716011426 2.7041881542 2.7440215323 2.7841338612
## 631 -1.896642063 -1.8570493113 -1.8069326780 -1.7393129436 -1.6587558024
## 632 -0.064172773 -0.0440461333 -0.0123605484 0.0300574281 0.0806157878
## 633 -0.916464222 -0.8682302910 -0.8071756250 -0.7384950094 -0.6665286287
## 634 -1.457839054 -1.6001711647 -1.5746285492 -1.5460974459 -1.5161304846
## 635 2.462536812 2.5103077950 2.5700598989 2.6314865246 2.6929653170
## 636 1.133237169 1.0697625404 1.0973119472 1.1287010148 1.1604768546
## 637 -1.640850263 -1.6061482300 -1.5564241236 -1.4874072555 -1.4327417487
## 638 -0.775747606 -0.7183304225 -0.6456515660 -0.5655605525 -0.4835515420
## 639 -0.041227695 -0.0297099704 -0.0099741142 0.0183061964 0.0558079855
## 640 -1.372799910 -1.3332917064 -1.2828215681 -1.2303628902 -1.1814418171
## 641 0.051872570 0.0413963737 0.0701294861 0.1080343613 0.1486569961
## 642 0.369639297 0.4076191696 0.4556942153 0.5177363039 0.5917459881
## 643 1.097058389 1.1437087341 1.2043139257 1.2707032664 1.3299247073
## 644 -1.684071621 -1.6239519935 -1.5478523746 -1.4719141648 -1.3685069995
## 645 -0.456580588 -0.4067148874 -0.3435947227 -0.2558139011 -0.1459478291
## 646 -0.076301218 -0.0352225587 0.0242908903 0.1125877983 0.1912749241
## 647 -0.250735873 -0.1987135568 -0.1328635404 -0.0551798047 0.0303664470
## 648 -0.196215428 -0.1932810982 -0.1542713877 -0.1056047899 -0.0550278467
## 649 1.608804055 1.5313526325 1.5466175777 1.5650400676 1.5865842283
## 650 -0.439992222 -0.3825629400 -0.3098687688 -0.2310381513 -0.1518176498
## 651 0.884838098 0.9332579542 0.9945479648 1.0775755593 1.1774877965
## 652 0.738028821 0.7704731551 0.8115412981 0.8701429544 0.9446802091
## 653 -0.538100948 -0.4832186603 -0.4137484834 -0.3444256544 -0.2516886766
## 654 -1.534934218 -1.4888058707 -1.4304164597 -1.3627671269 -1.2896217006
## 655 -0.152441799 -0.1091123604 -0.0542658171 0.0004643953 0.0681848741
## 656 0.137645949 0.1647644967 0.2007116220 0.2405785055 0.2802148514
## 657 0.883588199 0.8714628928 0.9043966648 0.9480230783 0.9993880425
## 658 -0.673324160 -0.6128299589 -0.5362562038 -0.4530203085 -0.3691365344
## 659 0.244498982 0.2882605924 0.3476389033 0.4207402510 0.4825262217
## 660 0.856132638 0.8616343805 0.8787145073 0.9016479856 0.9287438094
## 661 1.021454254 1.0765236762 1.1462307294 1.2282600527 1.3183675943
## 662 -1.396968567 -1.3370589682 -1.2612252047 -1.1855522866 -1.0969807076

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## 663 0.729988696 0.7685820910 0.8266709349 0.9144067911 0.9827745402
## 664 0.611868192 0.6409807850 0.6822247888 0.7408074709 0.7944401570
## 665 0.411294680 0.3614927244 0.3825545654 0.4129519500 0.4470203167
## 666 -1.660375289 -1.6095055566 -1.5451144846 -1.4698407056 -1.3877029339
## 667 0.008990641 0.0680653095 0.1428422164 0.2218585794 0.2987954651
## 668 -0.362750604 -0.3266161015 -0.2808769314 -0.2121707385 -0.1211086494
## 669 -0.391358710 -0.3820787548 -0.3626079572 -0.3319026606 -0.2946073090
## 670 -0.245579065 -0.2103762586 -0.1571127800 -0.0713327325 0.0080709385
## 671 0.901914632 0.9460631431 1.0019464713 1.0665979532 1.1363967491
## 672 1.164762703 1.2094017929 1.2714275614 1.3527008358 1.4207542026
## 673 0.624984723 0.6359646547 0.6592325168 0.6969492293 0.7422198636
## 674 -0.904056594 -0.8570910431 -0.7976418965 -0.7171103040 -0.6203764082
## 675 -0.570786370 -0.5318533215 -0.4825717430 -0.4169461950 -0.3403455146
## 676 -1.343777064 -1.3053153219 -1.2525835535 -1.1935572053 -1.1313347346
## 677 -0.456038209 -0.4227739337 -0.3796978167 -0.3346157402 -0.2899814510
## 678 0.386261916 0.4329738901 0.4968041003 0.5785402811 0.6516954449
## 679 -1.938472918 -1.8896543561 -1.8278596620 -1.7661960361 -1.6826917029
## 680 -1.477145358 -1.4274291480 -1.3644982085 -1.2841487869 -1.1895892312
## 681 0.235013067 0.2780465387 0.3362877103 0.4103995558 0.4815500906
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## 683 -1.383484721 -1.3289500210 -1.2599198218 -1.1910360374 -1.1289306124
## 684 0.208734982 0.2149805839 0.2519209242 0.3027716493 0.3592076942
## 685 0.308134999 0.3346756924 0.3728080338 0.4279219534 0.4772800957
## 686 0.324249098 0.3748611340 0.4389260132 0.5145039139 0.5977313090
## 687 -0.873670057 -0.8310519347 -0.7736099300 -0.7017694699 -0.6339807156
## 688 0.578266939 0.6099478923 0.6500497454 0.7070824638 0.7753809195
## 689 -0.270769833 -0.2347215295 -0.1890914704 -0.1266371440 -0.0502637290
## 690 -1.281818630 -1.2417706272 -1.1910777353 -1.1219881968 -1.0380888000
## 691 -0.840348347 -0.7865524670 -0.7184574679 -0.6386656434 -0.5513898700
## 692 1.208616936 1.2410565587 1.2821187377 1.3279470104 1.3755510469
## 693 -0.329229900 -0.2921460689 -0.2452052352 -0.1826683407 -0.1069849862
## 694 0.671389968 0.6873634173 0.7150687540 0.7549879578 0.8041004130
## 695 0.001663923 0.0242993049 0.0656592660 0.1024921253 0.1375203155
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## 697 -0.687989458 -0.6249541835 -0.5451639297 -0.4519130586 -0.3501862221
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## 699 -0.052614794 -0.0164895030 0.0365659820 0.1181688251 0.1924087376
## 700 -0.227213954 -0.2088063458 -0.1759567465 -0.1287328704 -0.0726570663
## 701 0.961641601 0.9896978857 1.0289064579 1.0737323724 1.1210622070
## 702 1.375898866 1.4139757496 1.4666384116 1.5257966642 1.5864710575
## 703 -2.188162538 -2.1349816991 -2.0676652207 -1.9769746557 -1.8691739500
## 704 1.089752948 1.1506709509 1.2277811562 1.3172665603 1.4141853678
## 705 1.523618229 1.5445604857 1.5757309477 1.6141089674 1.6561628197
## 706 -0.917256181 -0.8719999237 -0.8099693758 -0.7294771817 -0.6564497784
## 707 1.385271440 1.2552258533 1.2903412686 1.3324833443 1.3765989321
## 708 2.657885006 2.7130827728 2.7829522849 2.8649931093 2.9549159603
## 709 -1.181686224 -1.1227112460 -1.0480605279 -0.9633847163 -0.8738526169
## 710 -1.785010056 -1.7544362657 -1.7095253894 -1.6387829291 -1.5696356443
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## 712 -0.397489182 -0.3495229580 -0.2835479175 -0.1976366921 -0.1212822701
## 713 -0.305626140 -0.2383491877 -0.1531898040 -0.0604498334 0.0332158591
## 714 0.687148784 0.7214436608 0.7709836864 0.8415032269 0.8982113520
## 715 0.342113268 0.3688560977 0.4115783680 0.4682950424 0.5335743613
## 716 0.587378865 0.6537502058 0.7377632638 0.8350858951 0.9402998008

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## 717 -0.920914397 -0.8807500162 -0.8299098133 -0.7606325075 -0.6739233811
## 718 -0.893754560 -0.8713067218 -0.8418312862 -0.8062278562 -0.7681461502
## 719 -0.548979192 -0.5144588681 -0.4691935049 -0.4201357684 -0.3722716062
## 720 -0.280587657 -0.2306432407 -0.1674234371 -0.0932144443 -0.0119019927
## 721 -1.076091488 -1.1065105407 -1.0895022945 -1.0699709311 -1.0482347666
## 722 -1.154682383 -1.1192490065 -1.0741630490 -1.0281066694 -0.9858335013
## 723 -0.843919962 -0.8087121013 -0.7641458772 -0.7084340391 -0.6440651108
## 724 -0.425751644 -0.4370885699 -0.4144448120 -0.3779188964 -0.3354370648
## 725 -0.281944538 -0.2431965750 -0.1941492782 -0.1310866333 -0.0573583404
## 726 1.180313995 1.1300329683 1.1538450641 1.1812992478 1.2095476614
## 727 -0.204858735 -0.1398237828 -0.0575023304 0.0376712471 0.1403504809
## 728 -2.784595681 -2.7063484961 -2.6073029571 -2.5084674962 -2.3935891808
## 729 0.228205112 0.2526924164 0.2833910230 0.3132687459 0.3394580403
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## 732 -0.358172209 -0.3352246195 -0.3112832742 -0.2801512842 -0.2442309639
## 733 1.363962763 1.3948490892 1.4339451006 1.4899793048 1.5617497669
## 734 0.925390605 0.9749133752 1.0375994581 1.1241609062 1.2316470040
## 735 0.591790796 0.5995267933 0.6265823240 0.6641559429 0.7067953323
## 736 0.091665874 0.1359327709 0.1960803556 0.2714114891 0.3377633862
## 737 1.107054279 1.1450209399 1.1930792616 1.2544630734 1.3253837780
## 738 -0.556190218 -0.5484777260 -0.5140301315 -0.4660534915 -0.4102968082
## 739 -0.187504450 -0.1516627090 -0.1000255268 -0.0247505050 0.0424197623
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## 741 0.009209492 0.0548931112 0.1172529181 0.1967145781 0.2673958578
## 742 -0.008445009 0.0364710425 0.0933259250 0.1595667478 0.2316012573
## 743 1.605354833 1.6291511094 1.6629467871 1.7019165289 1.7430453020
## 744 1.559389358 1.6085884143 1.6708647395 1.7508960756 1.8443547436
## 745 1.340601600 1.3504854732 1.3926871749 1.4450230734 1.5041568549
## 746 -0.651080165 -0.5916067501 -0.5163251091 -0.4412031424 -0.3544729430
## 747 0.721488404 0.7447826162 0.7769342485 0.8129907013 0.8499952886
## 748 1.357373055 1.4179899118 1.4947189256 1.5840537597 1.6811344462
## 749 -0.791097099 -0.7190658295 -0.6278884163 -0.5208810777 -0.4036516623
## 750 0.112107852 0.1405608098 0.1820097787 0.2306801248 0.2822006096
## 751 -0.620934624 -0.6098277494 -0.5901255612 -0.5615747848 -0.5245503501
## 752 -0.497801502 -0.4468411331 -0.3823353336 -0.2980046787 -0.1969989013
## 753 0.249140185 0.2925869565 0.3475820206 0.4192542746 0.5046465853
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## 755 -0.129920658 -0.0895295633 -0.0384023856 0.0269857617 0.1041961853
## 756 1.801245160 1.5846258108 1.6248524047 1.6718642493 1.7204863752
## 757 1.235964042 1.2392092632 1.2717545907 1.3114931939 1.3553676655
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## 759 -1.292658821 -1.2410019857 -1.1756145961 -1.0867339749 -0.9793990582
## 760 -0.676917287 -0.6199742891 -0.5478956586 -0.4542425186 -0.3430804876
## 761 -0.796038546 -0.7922361973 -0.7622590414 -0.7178095828 -0.6654863600
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## 763 0.524746607 0.5535269169 0.5901177842 0.6273620995 0.6614667694
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## 765 1.182282255 1.2069302211 1.2388563168 1.2723823257 1.3038690386
## 766 1.167037782 1.2286253744 1.3065831482 1.3912483085 1.4764831047
## 767 0.289241331 0.2726968292 0.2891082164 0.3123987496 0.3417396950
## 768 0.109148163 0.1585574091 0.2210997925 0.3001664165 0.3927440228
## 769 0.052037007 0.0837935424 0.1275038847 0.1761165249 0.2255918776
## 770 0.531217616 0.5752330145 0.6309478481 0.7000840003 0.7792558701

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## 771 1.887500135 1.8140119360 1.8419072353 1.8766716937 1.9142530250
## 772 0.006343243 0.0690969275 0.1485307448 0.2406761844 0.3404353595
## 773 1.889651756 1.9286491467 1.9795569681 2.0342175686 2.0871826383
## 774 1.814482140 1.6905201915 1.7176005585 1.7533667422 1.7951070664
##           5          6          7          8          9
## 0   0.314416795 0.370312530 0.425046836 0.478363964 0.530385517
## 1  -0.477029594 -0.405363745 -0.332719933 -0.258541315 -0.186854453
## 2  -1.103489227 -1.036005782 -0.961978659 -0.902937827 -0.854689382
## 3  -0.826774244 -0.773239618 -0.724471731 -0.675972748 -0.625662723
## 4   0.714288191 0.788750838 0.854248808 0.921016248 0.981243685
## 5   0.575871278 0.646995729 0.715429729 0.778803137 0.836602736
## 6   0.873809237 0.943975227 1.006483217 1.071952277 1.129359959
## 7   0.604509699 0.677571962 0.767574567 0.838718471 0.899287860
## 8  -0.451369709 -0.373263127 -0.309672239 -0.257087765 -0.199918984
## 9   0.632399443 0.712985274 0.802224374 0.872538250 0.937812744
## 10  0.069917608 0.144153675 0.217095753 0.286617518 0.346093916
## 11  1.842913400 1.896822367 1.958568228 2.021398934 2.078160926
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## 13  -0.417089476 -0.340762767 -0.279074785 -0.235305331 -0.191129227
## 14  -0.795772797 -0.730791492 -0.669147224 -0.603119290 -0.532096806
## 15  0.227836126 0.280600692 0.329940710 0.371671909 0.411776813
## 16  -1.545636767 -1.463003976 -1.384486608 -1.310610105 -1.241640220
## 17  -0.384621824 -0.320734129 -0.258388129 -0.199889940 -0.146383603
## 18   0.285047874 0.325168551 0.356805303 0.384517661 0.409515434
## 19   0.454465237 0.526549553 0.593964551 0.667607625 0.728137905
## 20   0.827740905 0.884448281 0.947501027 1.001225831 1.054994433
## 21   1.379254538 1.411546838 1.450128874 1.493748068 1.537539450
## 22   1.707145467 1.788022726 1.860009839 1.925595479 1.995752838
## 23  -0.025259881 0.044842766 0.103055259 0.159910734 0.223259721
## 24   0.884178336 0.963635432 1.035369196 1.092575109 1.152063301
## 25  -0.727877515 -0.681345780 -0.641326971 -0.601238704 -0.561268593
## 26   1.126025549 1.171996781 1.219368541 1.262839424 1.301176386
## 27   0.719474505 0.777269877 0.830150879 0.882012812 0.899240594
## 28   0.963188869 1.018374268 1.072187764 1.123497722 1.171389693
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## 30   1.651578800 1.709797123 1.764988428 1.808804488 1.861306580
## 31   0.591111114 0.667721906 0.753348810 0.827005652 0.900381532
## 32  -1.006954833 -0.948988890 -0.879360964 -0.811929355 -0.745599995
## 33   1.422270198 1.509757488 1.581899858 1.652882682 1.723479178
## 34  -0.508955049 -0.445455842 -0.383262863 -0.325437065 -0.273637993
## 35   0.568160057 0.676149584 0.768526329 0.890848502 0.998355211
## 36  -1.114700641 -1.028550175 -0.953817526 -0.874351012 -0.798834520
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## 38   0.245291327 0.289414773 0.329833802 0.373807403 0.414650814
## 39   0.048663824 0.091443063 0.131600873 0.174547502 0.224315788
## 40   2.434555363 2.495522579 2.553820477 2.607670779 2.657346096
## 41   0.328109309 0.446492087 0.543147503 0.621165078 0.692300282
## 42  -2.524552599 -2.470423496 -2.410016542 -2.360657939 -2.316508228
## 43   1.108256526 1.193895113 1.266581126 1.329022916 1.383551933
## 44   1.735579314 1.813479076 1.886832367 1.955305088 2.014987177
## 45   1.291295809 1.358793985 1.413936233 1.456304999 1.497745992
## 46   1.445902575 1.516472645 1.586872709 1.648353902 1.706869727
## 47   0.407827476 0.494897720 0.576342133 0.646688828 0.703365463
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## 51  0.668001915  0.717274417  0.763934711  0.811044051  0.858624683
## 52  0.684355398  0.749314875  0.818443932  0.904011017  0.994899906
## 53  1.139765601  1.221728542  1.300792884  1.380504477  1.461375192
## 54  -0.268874959  -0.205470285  -0.148795177  -0.089473888  -0.026593254
## 55  -0.164908101  -0.117714276  -0.082146940  -0.045460939  -0.003516370
## 56  -1.755191998  -1.707075188  -1.664587031  -1.605387860  -1.623283396
## 57  -0.120271342  -0.041866910  0.035395109  0.111224151  0.184006803
## 58  -0.407590062  -0.372495851  -0.315944182  -0.236820095  -0.152582938
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## 60  -1.072508619  -1.031285049  -0.994778670  -0.962396537  -0.931425473
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## 62  0.866117682  0.939391591  0.993203015  1.060227991  1.123041753
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## 64  -0.114185883  -0.050434817  -0.003055357  0.041335784  0.090469953
## 65  -0.859522519  -0.804858772  -0.758398502  -0.706772275  -0.652085671
## 66  -0.546913515  -0.496255671  -0.436853736  -0.382489911  -0.337128658
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## 87  -1.522035201  -1.420487304  -1.335450017  -1.251625767  -1.183218106
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## 101 -0.165334285  -0.096117108  -0.024568273  0.039160186  0.090626401
## 102 1.176853916  1.240430592  1.302994245  1.351826792  1.395218934

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## 109 -0.281866254 -0.220647360 -0.156896362 -0.101188518 -0.050018999
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## 112  0.028663666  0.178184624  0.322367238  0.447940182  0.560017478
## 113  0.697700437  0.779748550  0.856912282  0.927992492  0.991369926
## 114  0.210259128  0.261188225  0.312731495  0.364706450  0.414982803
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## 156 -1.036913924 -0.978764149 -0.922354673 -0.870850443 -0.824860139

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## 157 2.323909870 2.360388318 2.395991161 2.423853913 2.437062174
## 158 -0.221304215 -0.149936867 -0.087903851 -0.016797238 0.050747053
## 159 -0.389477276 -0.307493163 -0.239810269 -0.163317213 -0.086581576
## 160 0.546117603 0.619605610 0.685319409 0.743145701 0.800013263
## 161 -0.038874074 0.042372430 0.114393201 0.171507513 0.241804670
## 162 2.239003922 2.338292237 2.429861981 2.511588711 2.584443079
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## 252 -0.032188415 0.023372886 0.079680114 0.134827019 0.188364029
## 253 -0.114731074 -0.035748114 0.075773860 0.183494991 0.273846565
## 254 0.036103700 0.121420649 0.195399035 0.259653178 0.325377353
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## 264 0.214369035 0.276046841 0.345005117 0.399145792 0.465566816

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## 378 2.519876867 2.566627001 2.611399537 2.652674735 2.690408222
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## 484 0.562839457 0.676942279 0.780454618 0.868490738 0.955182400
## 485 1.662057289 1.735242687 1.801319803 1.868977360 1.933301507
## 486 1.206066445 1.242091550 1.277382998 1.310983989 1.342859167
## 487 2.081077943 2.158853032 2.229495281 2.300100618 2.366415956
## 488 0.479918216 0.538117344 0.597333513 0.655826955 0.712499380
## 489 0.055795543 0.138571385 0.215207791 0.277618557 0.330414302
## 490 1.838418853 1.943483890 2.038166770 2.125966100 2.203362973
## 491 0.263972002 0.319999575 0.379233201 0.437509819 0.494461135
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## 494 1.652065592 1.720335271 1.788299466 1.854074761 1.916693501
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## 533 -1.144274921 -1.063174982 -0.992142743 -0.916816686 -0.853015102
## 534 2.423787830 2.471791873 2.520897311 2.570469511 2.612817991

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## 536 -0.647191835 -0.585352624 -0.526076206 -0.469989148 -0.416646895
## 537 0.520552494 0.568095108 0.613714763 0.658575113 0.699500854
## 538 -0.154918575 -0.084525195 -0.011896571 0.060635867 0.122414730
## 539 1.449674655 1.525894293 1.605858587 1.679495479 1.743887649
## 540 -0.138608694 -0.052776351 0.040689021 0.128955604 0.207661728
## 541 0.518574375 0.574846870 0.629766444 0.681218435 0.729083763
## 542 -1.936229338 -1.877877321 -1.821181940 -1.766324838 -1.713279624
## 543 -0.499394632 -0.407166232 -0.314936116 -0.236680467 -0.163028731
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## 546 -0.227851600 -0.141583278 -0.068788581 0.006092738 0.078436142
## 547 0.605044058 0.665946276 0.718919377 0.765518847 0.813619361
## 548 1.100651902 1.184780840 1.256859088 1.331899080 1.402660232
## 549 0.447799254 0.510590494 0.568264997 0.621003082 0.675701811
## 550 -0.194950993 -0.097390018 -0.008030972 0.084137255 0.170307228
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## 552 1.656305573 1.719801144 1.785252483 1.849330060 1.909699523
## 553 -1.377887951 -1.294675790 -1.207966916 -1.128266176 -1.058548925
## 554 -0.773872823 -0.696967126 -0.631975010 -0.570903484 -0.518394915
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## 556 1.051117632 1.153089631 1.249525685 1.338325628 1.422716775
## 557 0.113991750 0.191431605 0.260502741 0.321557958 0.382912898
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## 671 1.218334311 1.296444301 1.362425883 1.419148839 1.469295659
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## 678 0.720513922 0.785567570 0.846998350 0.905002060 0.959510622
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## 681 0.555123729 0.629024145 0.703151953 0.775417196 0.845179421
## 682 0.343007001 0.420981965 0.490023817 0.550176390 0.604315667
## 683 -1.037037146 -0.934601004 -0.843113109 -0.763137022 -0.688774045
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## 685 0.526644103 0.579124647 0.636536480 0.699290655 0.758889671
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## 687 -0.565852373 -0.498840455 -0.433457207 -0.371041169 -0.311573128
## 688 0.830237729 0.872534952 0.929931620 0.982965568 1.032269713
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## 690 -0.962817164 -0.883120217 -0.809969897 -0.746105898 -0.688765887
## 691 -0.456667295 -0.365100325 -0.283377700 -0.204016788 -0.131133794
## 692 1.419190000 1.459493659 1.496194133 1.529409044 1.560051746
## 693 -0.037658454 0.024401618 0.080634118 0.130481196 0.174735233
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## 699 0.263731174 0.332810656 0.399999220 0.465841394 0.530904338
## 700 -0.008918237 0.058663480 0.126476634 0.179108702 0.224203977
## 701 1.170382414 1.220601579 1.269343250 1.314870778 1.356979346
## 702 1.647982094 1.708684032 1.765401343 1.817103189 1.864080413
## 703 -1.774998208 -1.681269490 -1.602509997 -1.539917431 -1.487372414
## 704 1.509304164 1.597697437 1.673569805 1.738092503 1.795364533
## 705 1.703166398 1.754408298 1.808518568 1.863750544 1.910907620
## 706 -0.586524744 -0.519506404 -0.455793097 -0.395440015 -0.338723381
## 707 1.420913202 1.463837742 1.503820039 1.541001348 1.576703944
## 708 3.045445930 3.131101328 3.205951160 3.270050528 3.327009096
## 709 -0.786100772 -0.710860877 -0.651881218 -0.587113389 -0.540407987
## 710 -1.498024603 -1.423903344 -1.348292906 -1.272436499 -1.200695654
## 711 -0.199103334 -0.167962159 -0.140110651 -0.114101019 -0.089231934
## 712 -0.050983544 0.012096871 0.068142965 0.117765606 0.173394354
## 713 0.118266137 0.195493752 0.265681598 0.327245188 0.384315441
## 714 0.946793049 0.990129526 1.030494335 1.069563245 1.108425008
## 715 0.607652177 0.687136575 0.767953268 0.835448141 0.894870555
## 716 1.050111654 1.151237833 1.236916859 1.323504941 1.403989238
## 717 -0.591147193 -0.511898862 -0.436527347 -0.365025484 -0.297301248
## 718 -0.727571825 -0.686607936 -0.647157650 -0.609954758 -0.574615129
## 719 -0.322964429 -0.273321690 -0.223645524 -0.175314285 -0.128846642
## 720 0.069677014 0.146479337 0.212967659 0.268911964 0.317896197
## 721 -1.026329453 -1.004629461 -0.984242395 -0.966112337 -0.949236017
## 722 -0.944751422 -0.905210907 -0.867071414 -0.830627286 -0.784322695
## 723 -0.585185241 -0.531221041 -0.482121283 -0.437542537 -0.396399532
## 724 -0.289370448 -0.242769519 -0.197830684 -0.155497150 -0.120590913
## 725 0.008401749 0.065708940 0.116969439 0.175220214 0.231448720
## 726 1.240150328 1.272647341 1.307409058 1.345043447 1.384005966
## 727 0.247043583 0.344973625 0.427744292 0.511483008 0.588344463
## 728 -2.266518861 -2.150696999 -2.047341301 -1.950648134 -1.855293465
## 729 0.363379897 0.385445432 0.405444396 0.424018659 0.443625374
## 730 -0.357081876 -0.306861375 -0.257959417 -0.210368190 -0.164582338
## 731 -0.948616409 -0.877609378 -0.810910080 -0.732293929 -0.653031407
## 732 -0.203042037 -0.159345879 -0.114089944 -0.068623153 -0.024383627
## 733 1.628274043 1.689171320 1.744267641 1.794312367 1.839536192
## 734 1.330570459 1.430830547 1.526195513 1.614611225 1.697520456
## 735 0.751498715 0.794698701 0.834963715 0.871774529 0.906177080
## 736 0.399659832 0.459157368 0.517008818 0.574038673 0.630962160
## 737 1.387312900 1.438870917 1.483270998 1.535066781 1.577039790
## 738 -0.347935295 -0.284575757 -0.222845747 -0.166784510 -0.116429634
## 739 0.107547817 0.172903659 0.239499487 0.307385961 0.368050704
## 740 -0.009608545 0.042313957 0.097301611 0.154767922 0.212228718
## 741 0.333158847 0.394296449 0.451014556 0.503307662 0.550596076
## 742 0.315232409 0.395501663 0.463702528 0.521581630 0.585180629
## 743 1.785593435 1.828017339 1.875795689 1.921797017 1.963333848
## 744 1.927508665 1.999528672 2.063619921 2.133668878 2.199553042
## 745 1.567604871 1.632852425 1.697283657 1.758837791 1.817542140
## 746 -0.258857641 -0.172398457 -0.096188488 -0.025133071 0.043118723
## 747 0.887649398 0.925066981 0.960644177 0.993781225 1.024618209
## 748 1.776829250 1.865763638 1.941697697 2.004958462 2.060044316
## 749 -0.299296743 -0.203145724 -0.100865213 -0.005575599 0.078684562
## 750 0.337099735 0.392297679 0.446019609 0.497544302 0.547504466

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## 751 -0.481553589 -0.433997932 -0.384393901 -0.335800168 -0.289047117
## 752 -0.103797395 -0.018606370 0.060142985 0.139086258 0.214348382
## 753 0.582754000 0.652970877 0.717079423 0.791787843 0.863787169
## 754 -0.826492376 -0.759489619 -0.695506684 -0.634741618 -0.577303950
## 755 0.175982374 0.242588002 0.304329554 0.360915254 0.413812814
## 756 1.768974150 1.815529167 1.859397060 1.899158611 1.936018815
## 757 1.401203579 1.446518149 1.489886857 1.528685648 1.564236458
## 758 -0.028682186 0.031297917 0.085045283 0.134100058 0.180496752
## 759 -0.883813430 -0.783869809 -0.694427365 -0.618067417 -0.549703661
## 760 -0.241821336 -0.150994776 -0.068120137 0.029335541 0.125000243
## 761 -0.608763304 -0.553723001 -0.502740533 -0.453323031 -0.410730447
## 762 0.283170022 0.371378398 0.454213653 0.526116709 0.589162181
## 763 0.694511565 0.726280961 0.756897958 0.786146287 0.823373957
## 764 -1.093569700 -1.006347153 -0.923405774 -0.847241639 -0.776288931
## 765 1.334502995 1.363924705 1.390921291 1.416046980 1.444890313
## 766 1.553705320 1.623649662 1.687340247 1.743543370 1.795771522
## 767 0.374981534 0.411765697 0.450123663 0.488462219 0.519891740
## 768 0.479081534 0.559374199 0.633347277 0.700577198 0.762451009
## 769 0.275773134 0.325239495 0.379218256 0.431425054 0.479867926
## 770 0.850734215 0.915561617 0.973983959 1.026814671 1.075511670
## 771 1.954790276 1.996173294 2.037645127 2.078059621 2.116525439
## 772 0.444842981 0.541138219 0.622773413 0.704759833 0.777824737
## 773 2.141496601 2.196071853 2.250702519 2.303875667 2.357368638
## 774 1.840181479 1.886654811 1.932580137 1.976586647 2.018632993
##          10      11      12      13      14
## 0   0.578886198 0.623284637 0.6659665469 0.7061216736 0.743633498
## 1  -0.121946968 -0.062553836 -0.0022538220 0.0562618953 0.106907651
## 2  -0.800710865 -0.742752204 -0.6998617053 -0.6465966373 -0.607871944
## 3  -0.577219812 -0.531728186 -0.4853780810 -0.4489681157 -0.412047030
## 4   1.035504906 1.088341406 1.1386143153 1.1894623661 1.240170271
## 5   0.889021826 0.938806199 0.9904391241 1.0315491409 1.079709453
## 6   1.181255031 1.233370184 1.2822288197 1.3278413926 1.372170788
## 7   0.957203233 1.013333440 1.0727716238 1.1299769040 1.190615724
## 8  -0.144576203 -0.096638828 -0.0471232624 0.0030679510 0.056454260
## 9   1.012589255 1.095196563 1.1762723172 1.2364917259 1.301206031
## 10  0.406725500 0.473607029 0.5352368885 0.5796066399 0.633130835
## 11  2.123769427 2.151050674 2.1524801316 2.1777600213 2.212592234
## 12  -0.868468165 -0.823741407 -0.7761336666 -0.7275055751 -0.679999414
## 13  -0.144619008 -0.098356590 -0.0466845261 0.0081618545 0.062839211
## 14  -0.460080529 -0.392187241 -0.3335834273 -0.2937634656 -0.254878594
## 15  0.451194792 0.491084652 0.5368645499 0.5745914542 0.607494905
## 16  -1.177792622 -1.119455733 -1.0672640023 -1.0245072859 -0.975128558
## 17  -0.100101901 -0.058215618 -0.0126319136 0.0255991386 0.057868299
## 18   0.433059822 0.455796423 0.4767420280 0.4988386284 0.522001303
## 19   0.784009553 0.850089379 0.9267243679 0.9963259085 1.044433377
## 20   1.114136233 1.176161567 1.2386125571 1.2978107621 1.351799973
## 21   1.576412866 1.607110986 1.6285351605 1.6516211678 1.674470908
## 22   2.072936952 2.146915975 2.2016706670 2.2443855316 2.285997159
## 23   0.286751021 0.347322233 0.4114775217 0.4705317276 0.516278390
## 24   1.211680836 1.273815383 1.3563570969 1.4237126325 1.440932576
## 25  -0.522580922 -0.485985779 -0.4519881140 -0.4183659209 -0.393364483
## 26   1.341155697 1.381756936 1.4108060371 1.4185589099 1.439580592
## 27   0.923063640 0.977355489 1.0218760091 1.0683153326 1.114083914
## 28   1.215268606 1.255887800 1.2956336619 1.3441187802 1.381576825

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## 29 -0.203066394 -0.148637210 -0.0963477408 -0.0468077322 0.000792659
## 30 1.912886448 1.955566558 2.0034434927 2.0454998210 2.088543276
## 31 0.968450336 1.028549556 1.0963623081 1.1496550623 1.193417830
## 32 -0.680598990 -0.620904281 -0.5684188538 -0.5245066960 -0.485042296
## 33 1.791387423 1.859994734 1.9337153036 1.9898606968 2.032070162
## 34 -0.228206130 -0.183498209 -0.1294838012 -0.0863275847 -0.043834253
## 35 1.086182207 1.169543702 1.2459010965 1.3307072547 1.416245044
## 36 -0.730812541 -0.668367613 -0.6116298295 -0.5620279707 -0.519433278
## 37 0.787171260 0.849323261 0.9349401427 0.9991380315 1.059061627
## 38 0.452608874 0.489731414 0.5236005617 0.5491935755 0.572120940
## 39 0.277450370 0.327672008 0.3695390715 0.3974783576 0.418825046
## 40 2.710030532 2.764500555 2.8095729280 2.8618462106 2.916350582
## 41 0.781697447 0.891751532 0.9960293134 1.0995961567 1.179022188
## 42 -2.273122094 -2.231464660 -2.1913088051 -2.1509682628 -2.117109605
## 43 1.431932050 1.476798272 1.5213600386 1.5567618358 1.598481216
## 44 2.066749902 2.114777787 2.1635552639 2.2129417626 2.265994409
## 45 1.539866529 1.581002547 1.6231978925 1.6626258992 1.697047074
## 46 1.766668752 1.827990748 1.8898721904 1.9463662251 1.992870565
## 47 0.747283062 0.781794062 0.8118513082 0.8531897650 0.888860232
## 48 1.775218764 1.836932327 1.8964280748 1.9448374142 1.989753995
## 49 1.285599597 1.337553873 1.3930408764 1.4017607893 1.443842167
## 50 0.926689150 0.978729213 1.0358110636 1.0919059736 1.139883656
## 51 0.904879608 0.948674226 0.9893531150 1.0341796567 1.027240261
## 52 1.076395993 1.140434866 1.1856882739 1.2237887446 1.274735877
## 53 1.539549138 1.612426628 1.6781153661 1.7332545349 1.778788468
## 54 0.032543252 0.085257891 0.1361837575 0.1844186043 0.230411264
## 55 0.040993269 0.084093363 0.1231391488 0.1651684273 0.204401625
## 56 -1.647901508 -1.613440312 -1.5696412609 -1.5374753206 -1.504871982
## 57 0.251786423 0.313808538 0.3708958339 0.4280058203 0.418675330
## 58 -0.073607447 -0.004691197 0.0538557033 0.1112475233 0.164124535
## 59 1.316190673 1.381018374 1.4380674342 1.5109888930 1.590745101
## 60 -0.899183459 -0.864514255 -0.8279909802 -0.8036588768 -0.778801641
## 61 1.619427215 1.631100132 1.6854408426 1.7315815573 1.779575427
## 62 1.181585733 1.244298457 1.3083487261 1.3697906432 1.425681843
## 63 0.217763539 0.276999871 0.3279015863 0.3673108537 0.408839671
## 64 0.139933772 0.186330254 0.2322533420 0.2804411657 0.327877782
## 65 -0.596398328 -0.542973078 -0.4997164923 -0.4534026658 -0.407696656
## 66 -0.291329243 -0.243636397 -0.2049168077 -0.1735149071 -0.141541776
## 67 1.286622300 1.347374336 1.3943610666 1.4419145281 1.478247829
## 68 0.050950127 0.117415441 0.1841211487 0.2416250715 0.286321586
## 69 1.056627023 1.085602564 1.1098408548 1.1198319516 1.160764749
## 70 1.818502334 1.857830242 1.9064129649 1.9633800572 2.023057140
## 71 -0.297390246 -0.238420694 -0.1782977877 -0.1193609363 -0.065616209
## 72 2.112737219 2.169803051 2.2179365364 2.2689438365 2.312549781
## 73 0.299313960 0.355489412 0.4011008517 0.4509915629 0.518923012
## 74 1.640163026 1.620523388 1.6774227565 1.7499152344 1.828946768
## 75 -0.093477667 -0.035170849 0.0265833062 0.0882327700 0.152145890
## 76 1.009582772 1.068350744 1.1119781196 1.1597559828 1.198965480
## 77 0.164850698 0.241919790 0.3296130914 0.4076826189 0.469671800
## 78 0.442672982 0.495897012 0.5473419784 0.5874450181 0.638630258
## 79 0.455348594 0.490744354 0.5288114532 0.5573322044 0.585879701
## 80 -0.076227338 -0.022443138 0.0240408118 0.0721052115 0.116872501
## 81 1.782203735 1.834271848 1.8262997865 1.8762671754 1.923668249
## 82 -0.235944987 -0.187072313 -0.1433925369 -0.0896124776 -0.033942833

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## 83 -1.054221060 -1.008300246 -0.9609411539 -0.9070253471 -0.859901262
## 84 1.664074451 1.732850045 1.7919714908 1.8477814638 1.902195106
## 85 0.805902819 0.855040691 0.9100041073 0.9594526083 1.003877705
## 86 1.200323827 1.243435740 1.2812888473 1.3209215551 1.365153967
## 87 -1.110486375 -1.021053371 -0.9344543785 -0.8579993608 -0.794838227
## 88 -0.314377333 -0.260155269 -0.2168863121 -0.1701651658 -0.123243363
## 89 -0.497916108 -0.433309929 -0.3706615160 -0.2898198836 -0.209545483
## 90 1.581801758 1.617658036 1.6505522728 1.6789470383 1.703189570
## 91 0.588252273 0.625048525 0.6619625250 0.6993738980 0.733988054
## 92 1.953427343 2.001554036 2.0476200337 2.0910675094 2.132148413
## 93 -0.907300770 -0.858461038 -0.8142217998 -0.7781904764 -0.740915285
## 94 -1.391509556 -1.336446694 -1.2615111383 -1.1758925363 -1.101995806
## 95 0.387338466 0.443606348 0.5000811145 0.5555393751 0.608382375
## 96 0.934809123 0.972830627 1.0129208876 1.0535438868 1.093179607
## 97 2.024160109 2.067814436 2.1042829983 2.1359505007 2.167096056
## 98 -0.692244600 -0.634108748 -0.5709208941 -0.5147162053 -0.471921930
## 99 0.586021076 0.655746978 0.7181302306 0.7682090832 0.807098851
## 100 -0.117066591 -0.048974235 0.0174727123 0.0635000580 0.114988750
## 101 0.137531445 0.187833971 0.2431221404 0.2880439907 0.333892302
## 102 1.439174979 1.484262575 1.5292048538 1.5720692374 1.611672059
## 103 -1.902009898 -1.856579562 -1.8151075040 -1.7790327760 -1.748080510
## 104 0.756229661 0.792435759 0.8293654787 0.8653994245 0.899310894
## 105 0.533407128 0.567756551 0.6050613753 0.6437694027 0.681962395
## 106 0.379588645 0.428205254 0.4739511366 0.5224080435 0.562080575
## 107 0.863608733 0.898174897 0.9041729638 0.9507265158 0.989719961
## 108 1.497857597 1.541999007 1.5764936608 1.6102920909 1.643696089
## 109 0.002761156 0.057552694 0.1113217521 0.1586151735 0.207516500
## 110 0.517460304 0.580643038 0.6502332987 0.7058599244 0.771441466
## 111 0.978817449 1.022206855 1.0700821696 1.1122877479 1.152718345
## 112 0.659362031 0.751127096 0.8430975226 0.8622340668 0.944109434
## 113 1.050175090 1.105448559 1.1540886043 1.2198344789 1.269809185
## 114 0.461074387 0.501934108 0.5381838463 0.5686699240 0.602586355
## 115 1.189929758 1.251696767 1.3085954059 1.3697937972 1.425551606
## 116 -0.246149884 -0.174710398 -0.0998692830 -0.0467212507 -0.038476093
## 117 -0.018903972 0.016853978 0.0582319266 0.0827653589 0.106730025
## 118 -0.306878328 -0.221900711 -0.1413950208 -0.0733879509 -0.022543706
## 119 0.697858728 0.738484415 0.7776686125 0.8117437534 0.845896782
## 120 1.750126113 1.803930261 1.8544468757 1.9023469876 1.953735785
## 121 2.168519132 2.210538076 2.2514847090 2.2896169467 2.326629509
## 122 0.932413963 0.976852202 1.0319773676 1.0906651357 1.139384651
## 123 -0.561131104 -0.502181068 -0.4578385900 -0.4082471318 -0.366298338
## 124 -0.056676758 0.009076424 0.0668375179 0.1274633591 0.173700580
## 125 -0.897405766 -0.837229243 -0.7637972155 -0.6647476846 -0.578242987
## 126 -0.112526371 -0.055064769 -0.0016869385 0.0342017944 0.075437773
## 127 0.559105663 0.616053931 0.6612770852 0.7036604502 0.740093003
## 128 0.631838925 0.674842539 0.7135427516 0.7629393638 0.802556278
## 129 1.203812345 1.249920383 1.2961416543 1.3405627579 1.381482526
## 130 0.614334330 0.689275530 0.7701572144 0.8633022959 0.943395896
## 131 1.201293005 1.238104295 1.2741543051 1.3088540140 1.340379530
## 132 2.206315448 2.261297813 2.3214793301 2.3696854404 2.421191410
## 133 0.615504835 0.655836882 0.6955038080 0.7367251455 0.777150017
## 134 -1.339312969 -1.269818932 -1.2121322209 -1.1694851665 -1.130606149
## 135 0.446167212 0.521069129 0.5910649429 0.6811891453 0.756974896
## 136 0.810498307 0.856115304 0.8963821013 0.9403463360 0.985546402

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## 137 0.143382755 0.208831930 0.2691945956 0.3190100212 0.359925178
## 138 0.423357861 0.470852462 0.5096474826 0.5454845214 0.576520049
## 139 1.569449680 1.613126290 1.6539783771 1.6897541861 1.724653187
## 140 1.263553509 1.324689223 1.4106507672 1.4972568411 1.558584964
## 141 1.295575197 1.347519430 1.3994670056 1.4474196882 1.489513095
## 142 -0.631084246 -0.577144713 -0.5358335458 -0.5304667371 -0.496606992
## 143 0.585446891 0.647140187 0.7217215185 0.8014897930 0.865531348
## 144 0.192893894 0.265648206 0.3252680992 0.3848620982 0.440559766
## 145 -1.570029017 -1.511975679 -1.4520998907 -1.3953756982 -1.347368748
## 146 1.500372661 1.533235416 1.5658688952 1.6030339685 1.636179291
## 147 2.053272314 2.093889069 2.1328916558 2.1691932498 2.202703816
## 148 -1.094452453 -1.025945270 -0.9552079322 -0.8797867177 -0.811537237
## 149 0.995077048 1.038893662 1.0908982338 1.1292471724 1.163744370
## 150 -1.135832562 -1.084731355 -1.0395985625 -1.0010659098 -0.960096203
## 151 2.509425102 2.554560534 2.6006704888 2.6350707863 2.675153705
## 152 0.566599415 0.613057093 0.6620960655 0.7025440936 0.736255334
## 153 -0.813767965 -0.757340317 -0.7071605460 -0.6598983771 -0.606291289
## 154 1.041754770 1.091723778 1.1368645990 1.1705198344 1.200403801
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## 410 -0.417910711 -0.366710931 -0.3172631704 -0.2688927026 -0.226630896
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## 604 0.161572205 0.188948743 0.2175022529 0.2490831466 0.283463471
## 605 2.378424965 2.440665819 2.4975985953 2.5487235100 2.595061687
## 606 0.450556118 0.498210559 0.5442500906 0.5913866262 0.637479801
## 607 0.963747807 1.036790960 1.0950015227 1.1432620164 1.189309463
## 608 -1.574134142 -1.539661593 -1.5052896331 -1.4704455398 -1.436011522
## 609 0.301940299 0.337496769 0.3721305995 0.3994345978 0.426212331
## 610 1.321221856 1.374535433 1.4252934360 1.4743287037 1.522895145
## 611 0.862262655 0.905745055 0.9336367444 0.9612434979 0.986277070
## 612 0.571846061 0.629852917 0.6819998657 0.7302425441 0.777310126
## 613 1.093696631 1.134074347 1.1601629834 1.1859851036 1.210390971
## 614 0.862598780 0.917882377 0.9686749838 1.0154123787 1.059114817
## 615 1.617255217 1.669314721 1.7001367810 1.7306439690 1.760282701
## 616 0.650888125 0.704731346 0.7477712143 0.7898053651 0.830762314
## 617 1.018939253 1.056811899 1.0949530288 1.1361754351 1.179220880
## 618 2.131806421 2.189316640 2.2427337706 2.2839153408 2.320006708
## 619 0.891342666 0.936268444 0.9790642106 1.0175968521 1.054944193
## 620 0.794489940 0.853761524 0.9101224182 0.9704588899 1.026550336
## 621 0.709798393 0.754047261 0.7947452679 0.8342992121 0.874933772
## 622 1.891478439 1.928752210 1.9628247636 1.9944210769 2.024533207

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## 623 1.955378576 1.992181480 2.0251196285 2.0540359365 2.080354041
## 624 1.449667259 1.493396419 1.5360537150 1.5776367891 1.616994610
## 625 1.400962640 1.472378279 1.5396783594 1.5929705242 1.639785899
## 626 0.229791413 0.278036913 0.3247155170 0.3699197585 0.413758911
## 627 0.065078325 0.112965060 0.1534628754 0.1901023092 0.221547641
## 628 1.705151445 1.738715966 1.7699779025 1.8001838872 1.828639305
## 629 -0.064563716 -0.012422002 0.0322495793 0.0768918865 0.122102767
## 630 3.034768343 3.059200857 3.0832007691 3.1061242864 3.128743749
## 631 -1.247975319 -1.189709731 -1.1325057565 -1.0747337764 -1.023914743
## 632 0.464024449 0.516987810 0.5616364103 0.6046792008 0.644711974
## 633 -0.327741833 -0.283815744 -0.2399170481 -0.1795566001 -0.124440984
## 634 -1.346400110 -1.322482889 -1.2990246029 -1.2774893319 -1.256490232
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## 638 -0.095810406 -0.028786130 0.0341741329 0.0911979028 0.142174498
## 639 0.373572069 0.407311769 0.4403844617 0.4702639997 0.499255358
## 640 -0.865834557 -0.801855121 -0.7408768878 -0.6867821288 -0.639371091
## 641 0.452022258 0.491900015 0.5314260801 0.5718161040 0.611507929
## 642 0.938931726 0.984209206 1.0270786914 1.0665356904 1.103324589
## 643 1.635171647 1.684286807 1.7314317118 1.7748188440 1.814424010
## 644 -0.799238708 -0.725805139 -0.6567670117 -0.5958512638 -0.540174356
## 645 0.410671896 0.469842951 0.5242636177 0.5766632825 0.629931399
## 646 0.570310218 0.623139130 0.6697649537 0.7115114297 0.751817345
## 647 0.457291628 0.525701134 0.5859081601 0.6322990363 0.672303974
## 648 0.187153419 0.217955018 0.2446189552 0.2711441887 0.297918600
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## 652 1.276674647 1.319006624 1.3597521654 1.3990005748 1.440425487
## 653 0.257685223 0.318006787 0.3831848915 0.4428020724 0.496237973
## 654 -0.917575572 -0.881302178 -0.8498093057 -0.8193004620 -0.787123072
## 655 0.443045885 0.495176138 0.5567159798 0.6112389571 0.660267522
## 656 0.530184741 0.568933460 0.6064775870 0.6426348263 0.677423064
## 657 1.309838105 1.345439107 1.3793388766 1.4124221097 1.444071142
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## 659 0.774939058 0.824515854 0.8688484987 0.9078521395 0.944901053
## 660 1.158970059 1.195363862 1.2166581014 1.2377348036 1.258012199
## 661 1.733280314 1.787096692 1.8379919094 1.8862317427 1.933131709
## 662 -0.602516270 -0.529150505 -0.4543302941 -0.3895804488 -0.332787675
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## 664 1.071504892 1.110958276 1.1423722473 1.1734336143 1.204316483
## 665 0.611781331 0.633933899 0.6642602692 0.6870809661 0.704370987
## 666 -0.902597022 -0.838505811 -0.7824238553 -0.7304294668 -0.679459447
## 667 0.705119400 0.764969705 0.8239343398 0.8721087770 0.913960586
## 668 0.339950304 0.401002615 0.4499336469 0.4916225336 0.535976250
## 669 -0.087740796 -0.056245492 -0.0070287271 0.0168512320 0.041250036
## 670 0.388815455 0.431601235 0.4737621135 0.5206147149 0.569604849
## 671 1.515583064 1.559873293 1.6029824758 1.6448990629 1.685666578
## 672 1.737760626 1.789762266 1.8419804139 1.8939365062 1.945006943
## 673 1.046224795 1.089617775 1.1196747940 1.1491927364 1.178036602
## 674 -0.222233166 -0.174646241 -0.1272051618 -0.0790873967 -0.030288442
## 675 -0.041062812 -0.003362887 0.0361486655 0.0783886614 0.122349672
## 676 -0.770602687 -0.719548505 -0.6700539856 -0.6244658096 -0.579967460

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## 677  0.008016327  0.055303415  0.0977685520  0.1338956306  0.164137705
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## 679  -1.203282234 -1.144382269 -1.0823555457 -1.0267330757 -0.986548359
## 680  -0.764890379 -0.696437484 -0.6382660294 -0.5904350292 -0.548965565
## 681  0.913387553  0.979680355  1.0420233876  1.1002376439  1.157876104
## 682  0.664601236  0.730909242  0.7863254105  0.8361407376  0.875529502
## 683  -0.617560293 -0.548801963 -0.4813071941 -0.4179726007 -0.359673631
## 684  0.624072122  0.661416558  0.6975566448  0.7312120918  0.764319475
## 685  0.815000423  0.870327110  0.9247681636  0.9754541677  1.020956354
## 686  1.052436032  1.104420983  1.1509792288  1.1935192172  1.233978447
## 687  -0.255557433 -0.202945296 -0.1525319200 -0.1050219162 -0.060531225
## 688  1.087865204  1.144203484  1.1826045503  1.2219574419  1.261458097
## 689  0.326252446  0.376534926  0.4256761634  0.4738141360  0.517544311
## 690  -0.635813472 -0.585761308 -0.5376172682 -0.4910024817 -0.445441233
## 691  -0.066269420 -0.007830038  0.0452978935  0.0927981386  0.149829034
## 692  1.587913316  1.613494358  1.6392512222  1.6792966775  1.713782045
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## 694  1.114589343  1.155726513  1.1954935842  1.2321268705  1.267885844
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## 697  0.125396537  0.191291144  0.2475417328  0.2947803524  0.336428381
## 698  0.738773153  0.793062355  0.8431136416  0.8866113317  0.927319006
## 699  0.595692686  0.657082389  0.7088730713  0.7593466450  0.808535855
## 700  0.267599724  0.309581166  0.3501969021  0.3897385591  0.427655495
## 701  1.411652352  1.476778016  1.5237675694  1.5542217173  1.583998084
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## 703  -1.440146542 -1.395055800 -1.3500494463 -1.3035625563 -1.255834443
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## 706  -0.285206942 -0.234215828 -0.1852158111 -0.1368844964 -0.090868977
## 707  1.610362875  1.641348305  1.6700413699  1.6952444850  1.718279438
## 708  3.384843108  3.444216824  3.4964489196  3.5430596441  3.587103053
## 709  -0.504426221 -0.458682812 -0.3972575862 -0.3609510533 -0.324181716
## 710  -1.133155171 -1.068574344 -1.0071785226 -0.9503919721 -0.898249606
## 711  -0.056694559 -0.015553528  0.0224667915  0.0557337258  0.083747524
## 712  0.227350581  0.270773203  0.3067768811  0.3395127355  0.375063321
## 713  0.446321649  0.513086191  0.5728550587  0.6248222491  0.680027841
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## 717  -0.232572202 -0.169560792 -0.1070289854 -0.0476318747  0.009496723
## 718  -0.540140790 -0.508310133 -0.4834604805 -0.4583507476 -0.432679308
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## 720  0.372725404  0.433092803  0.4812076870  0.5215281824  0.559703021
## 721  -0.926548711 -0.899538804 -0.8811579950 -0.8709224959 -0.864968303
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## 728  -1.761387906 -1.674367660 -1.6016426830 -1.5296606496 -1.455365344
## 729  0.463496462  0.482370427  0.5004723353  0.5176900954  0.534444616
## 730  -0.121030967 -0.079856652 -0.0409923953 -0.0048527555  0.029192383

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## 731 -0.580976912 -0.516091521 -0.4571563566 -0.4018768176 -0.344073647
## 732 0.018357600 0.058301682 0.0928298830 0.1258376081 0.157281039
## 733 1.879888819 1.915962792 1.9490159582 1.9787136607 2.017495694
## 734 1.776127234 1.851162269 1.9229293835 1.9908373839 2.055216045
## 735 0.939069365 0.970368915 0.9994129041 1.0286352194 1.058357489
## 736 0.687477607 0.743339999 0.7988206908 0.8530082000 0.904403066
## 737 1.604732084 1.625026874 1.6439328998 1.6692713269 1.704107148
## 738 -0.070657153 -0.029233180 0.0074436065 0.0403590327 0.071366607
## 739 0.422817773 0.475786158 0.5270890750 0.5743285478 0.617281971
## 740 0.268789506 0.317328509 0.3447538399 0.3718989996 0.397660161
## 741 0.593380672 0.632447234 0.6695402806 0.7358629925 0.778720276
## 742 0.649059598 0.704906781 0.7555289164 0.8012655823 0.842458857
## 743 2.001194596 2.036299876 2.0694506558 2.1010665261 2.131774899
## 744 2.257334754 2.309969122 2.3596786292 2.4081944069 2.456819375
## 745 1.872250346 1.922968199 1.9717596788 2.0153953047 2.056752433
## 746 0.109197889 0.173702721 0.2370197812 0.2909254749 0.337359723
## 747 1.051856029 1.075748105 1.0989340876 1.1213197029 1.143304495
## 748 2.121837904 2.189584584 2.2418386666 2.2823036349 2.318984742
## 749 0.159177545 0.237080375 0.3045658012 0.3623724305 0.414338040
## 750 0.595894825 0.642560842 0.6877348710 0.7309740782 0.772146895
## 751 -0.246898591 -0.209693181 -0.1738800966 -0.1398321365 -0.107217111
## 752 0.284185565 0.349219534 0.4094156313 0.4650097002 0.517708737
## 753 0.926222771 0.980817703 1.0289367047 1.0706416413 1.108299288
## 754 -0.522553516 -0.471401296 -0.4264448564 -0.3828930015 -0.341842198
## 755 0.464994198 0.515005425 0.5629465416 0.6081631707 0.650530950
## 756 1.971164366 2.004715657 2.0362065717 2.0646797109 2.090567187
## 757 1.604266121 1.648152777 1.6837492207 1.6990529854 1.708858907
## 758 0.226028144 0.271911345 0.3188493881 0.3671492991 0.411217501
## 759 -0.485390624 -0.422532936 -0.3595747355 -0.2958538495 -0.232526447
## 760 0.210335744 0.287532824 0.3581168631 0.4217600624 0.480129719
## 761 -0.376065294 -0.347005936 -0.3213750085 -0.2967431805 -0.270543237
## 762 0.645690226 0.697744362 0.7469529610 0.7944619669 0.841381631
## 763 0.864508133 0.903196418 0.9396377581 0.9715323485 0.999469066
## 764 -0.708473238 -0.644524793 -0.5874316270 -0.5379978190 -0.486621577
## 765 1.474062315 1.499653351 1.5229218642 1.5453835650 1.568788091
## 766 1.852152204 1.913478934 1.9713839633 2.0243831177 2.073438815
## 767 0.546547121 0.572370394 0.5972945098 0.6217634745 0.644953612
## 768 0.818690629 0.870050762 0.9200451699 0.9818608177 1.036003115
## 769 0.525670723 0.569902996 0.6134015071 0.6566681228 0.699455641
## 770 1.120761288 1.163427204 1.2049226112 1.2449281521 1.284275970
## 771 2.153012308 2.189228735 2.2278782381 2.2615847197 2.291505373
## 772 0.836139416 0.884198942 0.9306584676 0.9845426594 1.047243242
## 773 2.409921477 2.459643839 2.5062702687 2.5473528497 2.586193945
## 774 2.054563959 2.084032294 2.1129168017 2.1389814530 2.164261874
## 15 16 17 18 19
## 0 0.782307291 0.824833271 8.681806e-01 0.895982473 9.169096e-01
## 1 0.161941715 0.221428481 2.767803e-01 0.315144393 3.244893e-01
## 2 -0.563176848 -0.514947283 -4.719040e-01 -0.424034154 -3.979047e-01
## 3 -0.374408260 -0.335554073 -2.980310e-01 -0.271516499 -2.460221e-01
## 4 1.286344319 1.314875807 1.327554e+00 1.380551837 1.416972e+00
## 5 1.110072475 1.134441553 1.174918e+00 1.208708233 1.227150e+00
## 6 1.419310861 1.468160573 1.513517e+00 1.548530060 1.565641e+00
## 7 1.258982481 1.321486311 1.363524e+00 1.407691600 1.449562e+00
## 8 0.096673231 0.126089075 1.579204e-01 0.197149928 2.226936e-01

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## 9   1.362992888  1.417511514  1.461245e+00  1.493071986  1.524312e+00
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## 11  2.246709897  2.279261357  2.313734e+00  2.349264188  2.380579e+00
## 12 -0.634408231 -0.591561539 -5.530041e-01 -0.522466915 -5.053178e-01
## 13  0.116034982  0.166571356  2.125629e-01  0.250252461  2.758624e-01
## 14 -0.209509898 -0.155220056 -9.591281e-02 -0.048076171 -2.625685e-02
## 15  0.640193363  0.674398567  7.103297e-01  0.744755807  7.613221e-01
## 16 -0.933391637 -0.895803864 -8.540439e-01 -0.821107127 -8.059895e-01
## 17  0.088484945  0.116925667  1.443839e-01  0.181596982  2.088540e-01
## 18  0.544459037  0.565355146  5.842070e-01  0.600049865  6.084992e-01
## 19  1.094189572  1.151345847  1.210310e+00  1.258778070  1.291389e+00
## 20  1.400368925  1.443213505  1.479560e+00  1.506954659  1.520969e+00
## 21  1.697318701  1.718597937  1.736917e+00  1.755467902  1.773417e+00
## 22  2.337564752  2.399682168  2.466622e+00  2.527859342  2.554764e+00
## 23  0.561475960  0.609246387  6.605231e-01  0.719090325  7.567965e-01
## 24  1.473015360  1.528032549  1.586169e+00  1.640439716  1.681252e+00
## 25 -0.372254087 -0.348772779 -3.186482e-01 -0.290816103 -2.669796e-01
## 26  1.469873197  1.505950455  1.542984e+00  1.573721523  1.590684e+00
## 27  1.157958090  1.198654481  1.234174e+00  1.261717207  1.281573e+00
## 28  1.416857811  1.455215092  1.497172e+00  1.531621189  1.552189e+00
## 29  0.047268821  0.093326292  1.384715e-01  0.177157744  2.010396e-01
## 30  2.132097231  2.176005226  2.219615e+00  2.259735493  2.291599e+00
## 31  1.235724771  1.284192103  1.339693e+00  1.380432951  1.409422e+00
## 32 -0.447085962 -0.408329715 -3.712729e-01 -0.349469557 -3.283939e-01
## 33  2.075123419  2.118009404  2.156317e+00  2.199680035  2.225926e+00
## 34 -0.014920719  0.009689759  4.828718e-02  0.094847998  1.270935e-01
## 35  1.497889877  1.570453911  1.634520e+00  1.704541954  1.745136e+00
## 36 -0.474169430 -0.423102824 -3.685322e-01 -0.320609520 -2.901491e-01
## 37  1.110637734  1.160277227  1.218175e+00  1.275993661  1.300986e+00
## 38  0.600506137  0.630393523  6.539664e-01  0.675519715  6.887050e-01
## 39  0.442759796  0.470943981  5.009883e-01  0.529444172  5.476226e-01
## 40  2.969827169  3.019540490  3.062104e+00  3.093249973  3.110305e+00
## 41  1.258506641  1.335871498  1.404116e+00  1.482621908  1.529885e+00
## 42 -2.083482420 -2.047632725 -2.008886e+00 -1.970280840 -1.950390e+00
## 43  1.638334420  1.674071432  1.708738e+00  1.748848468  1.777781e+00
## 44  2.317287323  2.365338028  2.410844e+00  2.452706882  2.479040e+00
## 45  1.731591428  1.768308131  1.806126e+00  1.838092225  1.857973e+00
## 46  2.014655891  2.038769500  2.096916e+00  2.142027814  2.175997e+00
## 47  0.919976342  0.949702291  9.821814e-01  1.015494182  1.034998e+00
## 48  2.037464334  2.084242940  2.123946e+00  2.162198223  2.190408e+00
## 49  1.505056493  1.574827811  1.640165e+00  1.685494276  1.716415e+00
## 50  1.183886941  1.226154371  1.268211e+00  1.308335543  1.332007e+00
## 51  1.037450068  1.073773622  1.113572e+00  1.143578055  1.166407e+00
## 52  1.333948010  1.398511686  1.458122e+00  1.487654859  1.516017e+00
## 53  1.822717055  1.866158714  1.908330e+00  1.952612077  1.987714e+00
## 54  0.274548355  0.316785372  3.562200e-01  0.389598779  4.124182e-01
## 55  0.238641794  0.272102424  3.093875e-01  0.341374108  3.617164e-01
## 56 -1.471023539 -1.436163718 -1.400743e+00 -1.366392757 -1.347279e+00
## 57  0.433376897  0.479044425  5.258412e-01  0.575853748  6.053806e-01
## 58  0.216447644  0.267761800  3.135656e-01  0.346565758  3.684487e-01
## 59  1.668220471  1.735400108  1.786510e+00  1.828075777  1.870211e+00
## 60 -0.753508649 -0.727862869 -7.022805e-01 -0.678592443 -6.603268e-01
## 61  1.826101136  1.868673936  1.904673e+00  1.931532432  1.948686e+00
## 62  1.475033850  1.516882507  1.550294e+00  1.576701205  1.604421e+00

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## 63  0.450108832  0.493950648  5.431262e-01  0.586315707  6.069597e-01
## 64  0.373232052  0.415322709  4.523780e-01  0.481211332  4.978199e-01
## 65 -0.363964600  -0.323184824  -2.866722e-01 -0.257146820  -2.388931e-01
## 66 -0.108957633  -0.075469576  -4.279337e-02 -0.017592269  5.920874e-03
## 67  1.516067161  1.553878157  1.585937e+00  1.618541671  1.643485e+00
## 68  0.330338231  0.378000473  4.263316e-01  0.463464004  4.953007e-01
## 69  1.204400003  1.242258551  1.275052e+00  1.301622381  1.320685e+00
## 70  2.082648943  2.139934964  2.191855e+00  2.232895085  2.252847e+00
## 71 -0.017264111  0.025233602  6.078060e-02  0.086809244  1.003239e-01
## 72  2.352419557  2.392913789  2.437092e+00  2.478122378  2.502752e+00
## 73  0.573228760  0.611342439  6.432106e-01  0.666752195  6.899692e-01
## 74  1.909456187  1.987016119  2.055558e+00  2.106081337  2.132300e+00
## 75  0.208477076  0.255287999  2.958113e-01  0.333274899  3.566872e-01
## 76  1.236302776  1.274277947  1.313356e+00  1.351536746  1.377988e+00
## 77  0.525328576  0.582009636  6.427666e-01  0.694378611  7.216029e-01
## 78  0.696005872  0.753620337  8.054162e-01  0.849881947  8.766732e-01
## 79  0.615006112  0.644672467  6.746191e-01  0.704201472  7.287664e-01
## 80  0.164110717  0.214263920  2.633440e-01  0.302983685  3.266299e-01
## 81  1.964388580  1.999827515  2.034074e+00  2.067809674  2.100189e+00
## 82  0.014671845  0.053556974  8.603999e-02  0.120349484  1.401080e-01
## 83 -0.808883356  -0.752565796  -6.972254e-01 -0.656489434  -6.413349e-01
## 84  1.953595475  2.008248661  2.069220e+00  2.113931411  2.146407e+00
## 85  1.044081444  1.085115865  1.130891e+00  1.169852483  1.194733e+00
## 86  1.405218323  1.440405099  1.473246e+00  1.501617979  1.523645e+00
## 87 -0.728550915  -0.661743494  -6.052982e-01 -0.557311872  -5.123393e-01
## 88 -0.077446259  -0.033707142  6.701073e-03  0.040985000  6.519230e-02
## 89 -0.143749594  -0.095822751  -5.842451e-02 -0.013811797  2.158072e-02
## 90  1.729406480  1.755705349  1.777995e+00  1.799857386  1.813686e+00
## 91  0.765983449  0.795616839  8.233881e-01  0.849003342  8.666478e-01
## 92  2.170861624  2.206862544  2.239129e+00  2.266247088  2.290892e+00
## 93 -0.707442228  -0.675070659  -6.410340e-01 -0.616493601  -5.960345e-01
## 94 -1.042247188  -0.989040726  -9.316015e-01 -0.876340634  -8.396911e-01
## 95  0.657704950  0.702415596  7.409757e-01  0.770555680  7.835402e-01
## 96  1.130824927  1.164234943  1.192305e+00  1.219375263  1.237677e+00
## 97  2.197748543  2.230928498  2.267881e+00  2.297796079  2.321052e+00
## 98 -0.449568223  -0.431314442  -3.917007e-01 -0.339393694  -3.084588e-01
## 99  0.819823914  0.835491363  8.901315e-01  0.938213390  9.632072e-01
## 100 0.169608018  0.225580492  2.774047e-01  0.312414312  3.429557e-01
## 101 0.382292234  0.425903763  4.570236e-01  0.486853522  5.102563e-01
## 102 1.647742373  1.681347452  1.712589e+00  1.735617601  1.746662e+00
## 103 -1.721229483  -1.698149958  -1.674560e+00 -1.639333735  -1.617961e+00
## 104 0.930745225  0.959356155  9.849240e-01  1.006653158  1.016329e+00
## 105 0.719181719  0.755070518  7.887940e-01  0.816114795  8.202966e-01
## 106 0.602029623  0.646302646  6.950263e-01  0.740499042  7.680899e-01
## 107 1.027051433  1.064850486  1.102810e+00  1.137965003  1.166193e+00
## 108 1.676766127  1.708197583  1.735830e+00  1.758131533  1.771318e+00
## 109 0.248404066  0.285636100  3.277872e-01  0.365690513  3.874834e-01
## 110 0.846582233  0.922416511  9.845627e-01  1.026724312  1.057508e+00
## 111 1.187798583  1.219995292  1.253400e+00  1.283188803  1.300337e+00
## 112 1.029640721  1.104125946  1.179261e+00  1.267193259  1.320277e+00
## 113 1.309800008  1.345872451  1.384116e+00  1.422180450  1.443605e+00
## 114 0.631745508  0.656743383  6.835868e-01  0.716040648  7.454291e-01
## 115 1.476672627  1.523951421  1.568628e+00  1.610670557  1.639195e+00
## 116 -0.013502592  0.038449335  1.011781e-01  0.160379613  1.856631e-01

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## 117 0.129835315 0.151803430 1.720672e-01 0.189078300 1.976160e-01
## 118 -0.009965760 0.006720740 7.785154e-02 0.133852753 1.685327e-01
## 119 0.877324139 0.910079036 9.489861e-01 0.983752929 1.000598e+00
## 120 2.001452852 2.040785815 2.071324e+00 2.103199203 2.133790e+00
## 121 2.361965678 2.395131755 2.425583e+00 2.452577460 2.472846e+00
## 122 1.175463198 1.205609572 1.238548e+00 1.266524161 1.286230e+00
## 123 -0.327728422 -0.291604680 -2.590261e-01 -0.232276845 -2.141711e-01
## 124 0.218172586 0.265156292 3.134480e-01 0.356127590 3.811514e-01
## 125 -0.512948409 -0.460305778 -3.984901e-01 -0.314947437 -2.621544e-01
## 126 0.120359559 0.167452330 2.141391e-01 0.254843837 2.783477e-01
## 127 0.773139123 0.806009418 8.422860e-01 0.879829549 9.019152e-01
## 128 0.840058616 0.873255484 8.979632e-01 0.922421152 9.444956e-01
## 129 1.421502720 1.464025213 1.511281e+00 1.555961312 1.584086e+00
## 130 1.011747571 1.071390022 1.130280e+00 1.198419855 1.244665e+00
## 131 1.375313416 1.413718463 1.450919e+00 1.479859649 1.495726e+00
## 132 2.474214879 2.526888670 2.575898e+00 2.614424005 2.630181e+00
## 133 0.815803026 0.851832281 8.839317e-01 0.909636989 9.260078e-01
## 134 -1.083189341 -1.033923772 -9.944549e-01 -0.953313460 -9.150188e-01
## 135 0.825302911 0.887493617 9.464857e-01 1.010947048 1.044305e+00
## 136 1.030348715 1.073227563 1.111694e+00 1.136926429 1.123195e+00
## 137 0.397646003 0.434091316 4.694902e-01 0.503161665 5.286173e-01
## 138 0.602927197 0.625006523 6.455690e-01 0.670844331 6.854172e-01
## 139 1.759781472 1.794247571 1.825562e+00 1.851144759 1.871837e+00
## 140 1.610818079 1.662478853 1.719291e+00 1.780346669 1.817039e+00
## 141 1.525696730 1.559279831 1.592401e+00 1.616367327 1.633337e+00
## 142 -0.451657634 -0.402744316 -3.552412e-01 -0.320786479 -2.980048e-01
## 143 0.915097310 0.956246419 9.964156e-01 1.034098703 1.072513e+00
## 144 0.488327175 0.537092618 5.943045e-01 0.636991150 6.783144e-01
## 145 -1.309937432 -1.277454663 -1.239630e+00 -1.196264552 -1.176996e+00
## 146 1.664364286 1.689224850 1.713207e+00 1.734723279 1.749276e+00
## 147 2.233615351 2.263425174 2.293007e+00 2.318031183 2.337684e+00
## 148 -0.738589439 -0.658246716 -5.760548e-01 -0.509150709 -4.741471e-01
## 149 1.194683544 1.226680215 1.262841e+00 1.291295141 1.308821e+00
## 150 -0.935012435 -0.913055321 -8.730398e-01 -0.835324249 -8.141441e-01
## 151 2.711128193 2.743594874 2.778020e+00 2.812253647 2.831286e+00
## 152 0.767950492 0.799352551 8.306802e-01 0.861271931 8.881524e-01
## 153 -0.558822161 -0.516514028 -4.727592e-01 -0.431304675 -4.034356e-01
## 154 1.228087233 1.256900014 1.289451e+00 1.319053625 1.331701e+00
## 155 -1.265423730 -1.223529149 -1.175081e+00 -1.132468273 -1.109206e+00
## 156 -0.603786624 -0.578042158 -5.468512e-01 -0.516981817 -4.973226e-01
## 157 2.600433961 2.631985484 2.660857e+00 2.685572396 2.700266e+00
## 158 0.380532376 0.423940415 4.597178e-01 0.502087704 5.238469e-01
## 159 0.293940341 0.343993859 3.897354e-01 0.440962245 4.758494e-01
## 160 1.128659645 1.168764216 1.209538e+00 1.249016048 1.277604e+00
## 161 0.588923194 0.642473190 6.985711e-01 0.745489928 7.728207e-01
## 162 2.994207082 3.048387013 3.095608e+00 3.139994147 3.168625e+00
## 163 0.657594316 0.721704501 7.828299e-01 0.832845300 8.666063e-01
## 164 1.384584779 1.416734499 1.446598e+00 1.471996750 1.486893e+00
## 165 1.196710780 1.246236191 1.289695e+00 1.324940206 1.342835e+00
## 166 0.097669360 0.134165829 1.657874e-01 0.183575208 1.537023e-01
## 167 1.241492946 1.283006333 1.321805e+00 1.363451275 1.394083e+00
## 168 1.718608316 1.750693792 1.778920e+00 1.801339840 1.814385e+00
## 169 1.537701659 1.584743404 1.635343e+00 1.686136192 1.715367e+00
## 170 1.061465363 1.090585504 1.118722e+00 1.144458677 1.173447e+00

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## 171 0.777866950 0.833764442 8.817782e-01 0.918774701 9.447241e-01
## 172 1.056540266 1.094452207 1.126140e+00 1.148735689 1.157924e+00
## 173 0.730869598 0.736975102 7.762395e-01 0.822274605 8.464796e-01
## 174 0.926754418 0.960873237 9.974491e-01 1.028632068 1.050896e+00
## 175 2.250628922 2.334947524 2.406263e+00 2.463769051 2.502236e+00
## 176 1.047180330 1.091581864 1.127656e+00 1.163461492 1.185283e+00
## 177 1.360431419 1.416913442 1.465102e+00 1.505429049 1.537604e+00
## 178 0.477125193 0.515820961 5.559539e-01 0.602162762 6.251381e-01
## 179 -0.054328291 -0.021720656 1.251785e-02 0.045366154 6.421715e-02
## 180 0.740026250 0.783375653 8.285122e-01 0.871190757 8.902995e-01
## 181 -0.297973491 -0.250232237 -2.083876e-01 -0.174480599 -1.498832e-01
## 182 2.860014831 2.900484397 2.941891e+00 2.980302310 2.997340e+00
## 183 0.458682822 0.502580709 5.472310e-01 0.587820216 6.045066e-01
## 184 -0.099366442 -0.056407663 -3.009241e-02 0.006448053 2.706376e-02
## 185 0.677438960 0.713625315 7.522824e-01 0.789819174 8.145351e-01
## 186 -0.094162939 -0.040591354 1.628937e-02 0.068854557 1.054138e-01
## 187 0.051407263 0.090585092 1.281359e-01 0.160312188 1.793417e-01
## 188 0.768406132 0.819766974 8.695500e-01 0.905284206 9.231041e-01
## 189 1.002602068 1.028200812 1.055814e+00 1.086244975 1.110772e+00
## 190 1.154552124 1.178874654 1.198118e+00 1.217730750 1.234048e+00
## 191 1.872471766 1.908328805 1.941729e+00 1.971559382 1.992183e+00
## 192 1.681532059 1.714051602 1.744198e+00 1.784021396 1.807743e+00
## 193 0.950472446 0.981018521 1.013555e+00 1.044802116 1.065706e+00
## 194 -1.309488430 -1.270853540 -1.232497e+00 -1.196650953 -1.177390e+00
## 195 -0.062215874 -0.008044546 3.077948e-02 0.062103255 1.031582e-01
## 196 1.303698205 1.341235559 1.378473e+00 1.410501405 1.438355e+00
## 197 0.757823129 0.801005540 8.384176e-01 0.866109469 8.792992e-01
## 198 0.493022845 0.522759436 5.493076e-01 0.570313512 5.776917e-01
## 199 1.057740758 1.113316466 1.167103e+00 1.216851991 1.248080e+00
## 200 1.533491544 1.572758719 1.603718e+00 1.634644648 1.662737e+00
## 201 -0.287300499 -0.244664035 -2.044891e-01 -0.183851286 -1.638676e-01
## 202 0.805162945 0.835948474 8.672924e-01 0.899234501 9.287942e-01
## 203 -0.077661908 -0.028993010 2.080701e-02 0.067249841 8.908352e-02
## 204 -0.931989501 -0.879847913 -8.266712e-01 -0.780720018 -7.362433e-01
## 205 1.887341391 1.940116595 1.990295e+00 2.035612372 2.071944e+00
## 206 1.763952430 1.804299953 1.849991e+00 1.890334962 1.921087e+00
## 207 -0.001171544 0.027843109 5.894274e-02 0.090261395 1.082812e-01
## 208 0.018415531 0.056639920 9.275704e-02 0.129611309 1.508861e-01
## 209 -0.715505349 -0.672572151 -6.354386e-01 -0.602162937 -5.759581e-01
## 210 0.421652402 0.455698036 4.850665e-01 0.516364922 5.400927e-01
## 211 0.593359831 0.641116181 6.810162e-01 0.710181177 7.292894e-01
## 212 1.196278371 1.256448013 1.326269e+00 1.393044778 1.423891e+00
## 213 0.833978908 0.903488264 9.597987e-01 0.998054331 1.034997e+00
## 214 1.413832818 1.435562938 1.456284e+00 1.477467390 1.494777e+00
## 215 1.194436631 1.249763664 1.303175e+00 1.360481767 1.392504e+00
## 216 2.841259001 2.877185883 2.905754e+00 2.927237919 2.947594e+00
## 217 0.268661614 0.309790792 3.519870e-01 0.392251911 4.146230e-01
## 218 0.875850710 0.919913977 9.681247e-01 1.017712720 1.047308e+00
## 219 0.834028241 0.879277250 9.271591e-01 0.969066564 9.926031e-01
## 220 1.624294821 1.674717328 1.724779e+00 1.757638379 1.789467e+00
## 221 -0.696277958 -0.646559418 -6.001391e-01 -0.557769600 -5.219429e-01
## 222 3.253006654 3.275858617 3.302475e+00 3.335047994 3.365132e+00
## 223 0.614010148 0.645819547 6.762376e-01 0.705957670 7.323510e-01
## 224 -0.082970576 -0.052034966 -2.671993e-02 -0.010507323 7.288562e-06

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## 225 0.413826381 0.439709064 4.666281e-01 0.495727827 5.201427e-01
## 226 0.934435344 0.983855116 1.027315e+00 1.065679773 1.090843e+00
## 227 2.030019621 2.056743752 2.080039e+00 2.109131243 2.134045e+00
## 228 1.960450411 1.990753126 2.020713e+00 2.045110958 2.068060e+00
## 229 -0.630723768 -0.606364938 -5.792892e-01 -0.548179703 -5.234473e-01
## 230 0.230886717 0.253203022 2.731552e-01 0.289038662 2.951068e-01
## 231 1.878358261 1.913655221 1.958056e+00 1.998763568 2.018165e+00
## 232 1.896933908 1.939697491 1.977175e+00 2.007414809 2.027929e+00
## 233 0.636055395 0.665985355 6.960440e-01 0.726139228 7.539025e-01
## 234 0.033150228 0.074719085 1.143881e-01 0.151740929 1.836070e-01
## 235 3.217820927 3.250099505 3.281532e+00 3.311206713 3.338056e+00
## 236 0.675849252 0.721159431 7.617686e-01 0.796161824 8.139101e-01
## 237 1.042255891 1.087042168 1.128501e+00 1.163710678 1.188820e+00
## 238 1.254351374 1.286639139 1.314308e+00 1.337192280 1.353267e+00
## 239 0.002644228 0.024177788 4.557199e-02 0.067098728 8.691043e-02
## 240 0.151534005 0.190186245 2.207264e-01 0.251143780 2.787150e-01
## 241 1.632268610 1.673178184 1.713302e+00 1.745494795 1.769187e+00
## 242 -0.778650209 -0.753370860 -7.323664e-01 -0.716216766 -7.067093e-01
## 243 -0.532072104 -0.495671052 -4.641711e-01 -0.431943071 -4.082903e-01
## 244 0.809970106 0.851238524 8.846934e-01 0.914509383 9.383946e-01
## 245 0.643646249 0.668725953 6.996133e-01 0.731799073 7.661830e-01
## 246 1.315469192 1.353005851 1.393364e+00 1.432068490 1.457007e+00
## 247 0.985112223 1.018900835 1.054823e+00 1.090628022 1.121689e+00
## 248 0.701774890 0.743950295 7.865746e-01 0.825329152 8.562816e-01
## 249 -0.658061308 -0.592028512 -5.272995e-01 -0.470684381 -4.414664e-01
## 250 0.954351621 0.988069401 1.019791e+00 1.047114832 1.073082e+00
## 251 0.185718129 0.230473291 2.798524e-01 0.324497065 3.575437e-01
## 252 0.482393739 0.521647428 5.559682e-01 0.583471748 6.017271e-01
## 253 0.707499167 0.769985808 8.386402e-01 0.904990767 9.410831e-01
## 254 0.718310409 0.770686218 8.174443e-01 0.855832304 8.816536e-01
## 255 0.458144624 0.513136726 5.585956e-01 0.591032099 6.226382e-01
## 256 1.714797335 1.774715564 1.839170e+00 1.894588974 1.928642e+00
## 257 0.811927894 0.850683468 8.879624e-01 0.921563054 9.466981e-01
## 258 1.040310066 1.081364349 1.122186e+00 1.148608681 1.172973e+00
## 259 -0.404113061 -0.373036419 -3.451916e-01 -0.315814352 -2.875563e-01
## 260 1.782235370 1.819712019 1.853269e+00 1.881914623 1.902993e+00
## 261 0.213797473 0.266125494 3.133882e-01 0.358308825 3.854273e-01
## 262 -0.686225167 -0.651198283 -6.203294e-01 -0.587720139 -5.563459e-01
## 263 1.853888499 1.896264096 1.934946e+00 1.976300339 2.005040e+00
## 264 0.785111940 0.829363797 8.683955e-01 0.906477842 9.404010e-01
## 265 2.972517670 3.011310629 3.048491e+00 3.081944849 3.104996e+00
## 266 1.122708351 1.166871757 1.205023e+00 1.236119714 1.254084e+00
## 267 0.034420717 0.085394687 1.392848e-01 0.191739869 2.181308e-01
## 268 2.920300958 2.975890444 3.030297e+00 3.062540678 3.093571e+00
## 269 1.877241028 1.922661464 1.965690e+00 2.004460294 2.034755e+00
## 270 2.396647040 2.446455481 2.498609e+00 2.565102925 2.594727e+00
## 271 1.801597128 1.846405576 1.888155e+00 1.928258608 1.945228e+00
## 272 -0.710943207 -0.686109051 -6.637255e-01 -0.645402541 -6.332982e-01
## 273 0.395576362 0.454134610 5.007182e-01 0.547593065 5.890315e-01
## 274 0.768941257 0.811117789 8.456914e-01 0.879060499 9.082885e-01
## 275 -0.642927006 -0.596906898 -5.599251e-01 -0.532098442 -5.045813e-01
## 276 3.145375952 3.185351275 3.221992e+00 3.261935029 3.291341e+00
## 277 -0.635328075 -0.614097322 -5.951778e-01 -0.578534640 -5.679448e-01
## 278 0.690986084 0.717982924 7.448284e-01 0.765449729 7.851914e-01

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## 279  0.979099024  1.009207856  1.041404e+00  1.074228772  1.096379e+00
## 280  1.049352089  1.080993053  1.112057e+00  1.142681429  1.170047e+00
## 281  0.670066761  0.697250817  7.214961e-01  0.747555341  7.731512e-01
## 282 -0.733808986 -0.696227239 -6.602484e-01 -0.621916387 -6.020934e-01
## 283  2.501814246  2.536208836  2.567945e+00  2.595398186  2.620386e+00
## 284  0.169579192  0.213583959  2.580364e-01  0.301338498  3.384148e-01
## 285  2.184760670  2.209427098  2.235468e+00  2.261679706  2.279166e+00
## 286  0.305590621  0.364429484  4.242055e-01  0.477052769  5.062199e-01
## 287  1.240595441  1.268906681  1.297283e+00  1.325690389  1.350818e+00
## 288  1.132350920  1.214442612  1.303737e+00  1.388201597  1.415412e+00
## 289  1.487737094  1.519502537  1.547954e+00  1.573972557  1.597472e+00
## 290  2.164156175  2.195903935  2.226914e+00  2.256586972  2.282479e+00
## 291  0.855801904  0.911412479  9.597101e-01  1.003781214  1.045575e+00
## 292  0.046849430  0.093706511  1.450334e-01  0.186475769  2.131092e-01
## 293  2.328187415  2.368340941  2.411214e+00  2.453554328  2.473153e+00
## 294  1.299748285  1.327181778  1.354827e+00  1.381941661  1.407969e+00
## 295 -0.614847253 -0.560987876 -5.045462e-01 -0.436244726 -3.823973e-01
## 296  1.003732017  1.034909175  1.063251e+00  1.088223133  1.109100e+00
## 297 -0.806158896 -0.760473160 -7.035170e-01 -0.642963530 -6.177498e-01
## 298  3.055268848  3.090919094  3.130393e+00  3.168963224  3.194449e+00
## 299  0.610973702  0.668365001  7.178943e-01  0.755801235  7.800345e-01
## 300  0.804516974  0.842218498  8.723999e-01  0.901669592  9.260118e-01
## 301 -0.523826895 -0.486929717 -4.550852e-01 -0.421894371 -3.905208e-01
## 302  0.292398502  0.331394767  3.679898e-01  0.399683397  4.211508e-01
## 303 -0.064147758 -0.026612417  5.187616e-03  0.040946812  6.258194e-02
## 304 -0.802715606 -0.765382636 -7.344204e-01 -0.711977253 -6.943290e-01
## 305  1.153145562  1.201670603  1.248628e+00  1.296248100  1.328052e+00
## 306  2.198164131  2.230363389  2.257901e+00  2.281275267  2.298252e+00
## 307  0.523932295  0.571950037  6.199212e-01  0.670772954  7.065666e-01
## 308  1.212181118  1.234703620  1.256563e+00  1.275902568  1.294655e+00
## 309  1.605890610  1.650489902  1.697560e+00  1.742640070  1.764116e+00
## 310  0.701450249  0.724922058  7.494899e-01  0.778656032  8.033063e-01
## 311  2.505734841  2.541260624  2.577072e+00  2.605147612  2.632125e+00
## 312 -0.021230349  0.001001153  2.365970e-02  0.045897836  6.494563e-02
## 313  1.586108634  1.653337800  1.716256e+00  1.781788769  1.834160e+00
## 314  2.601137710  2.633954326  2.666008e+00  2.697713089  2.722400e+00
## 315  1.394515423  1.424629876  1.454143e+00  1.480110487  1.500318e+00
## 316  0.889283343  0.926728261  9.649591e-01  1.007940956  1.033632e+00
## 317  0.280461770  0.327218861  3.735848e-01  0.412846545  4.416329e-01
## 318  1.360878646  1.399668720  1.433892e+00  1.460740440  1.478047e+00
## 319  0.737051538  0.774302683  8.116815e-01  0.843322472  8.646443e-01
## 320 -0.062416354 -0.010301306  3.666486e-02  0.075626949  1.013245e-01
## 321  1.283002737  1.309636777  1.335643e+00  1.359976129  1.373132e+00
## 322  1.227796933  1.281179990  1.328442e+00  1.365017434  1.384254e+00
## 323  1.248185839  1.299472092  1.348146e+00  1.378482654  1.407592e+00
## 324  0.190276442  0.227047088  2.657284e-01  0.304723169  3.314222e-01
## 325  0.018748471  0.055608972  9.013075e-02  0.122120167  1.480773e-01
## 326  1.959836020  2.010790971  2.059483e+00  2.102024125  2.134714e+00
## 327  3.492623264  3.549072641  3.606573e+00  3.661301684  3.692634e+00
## 328 -0.689362006 -0.646043582 -6.079927e-01 -0.569299959 -5.439692e-01
## 329 -0.294979865 -0.244398555 -1.979318e-01 -0.149247119 -1.151509e-01
## 330 -0.140455293 -0.083981790 -3.875724e-02 -0.010466273  1.692290e-02
## 331  0.463626626  0.520047214  5.721296e-01  0.617288378  6.432018e-01
## 332  0.158327021  0.192678606  2.250918e-01  0.250267365  2.721711e-01

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## 333 1.226525733 1.254665871 1.281947e+00 1.305593717 1.327733e+00
## 334 1.628075973 1.672920684 1.715394e+00 1.752369560 1.779134e+00
## 335 -0.287030237 -0.249674269 -2.080520e-01 -0.183528958 -1.600090e-01
## 336 1.415415511 1.455292986 1.495526e+00 1.527510238 1.547477e+00
## 337 0.832191478 0.865217938 8.987545e-01 0.927658196 9.432998e-01
## 338 -1.139269975 -1.093902462 -1.045476e+00 -0.992304479 -9.628103e-01
## 339 1.249833007 1.281515153 1.313606e+00 1.341295824 1.367206e+00
## 340 0.780555155 0.813985269 8.391900e-01 0.866590571 8.938229e-01
## 341 0.326833487 0.379583963 4.332709e-01 0.496940591 5.296715e-01
## 342 -0.499601060 -0.422003181 -3.554166e-01 -0.290260054 -2.475513e-01
## 343 1.217797509 1.265342614 1.314431e+00 1.360551563 1.382485e+00
## 344 0.268998307 0.297704091 3.215804e-01 0.340311802 3.498046e-01
## 345 1.178620155 1.226422311 1.271720e+00 1.309964932 1.335850e+00
## 346 0.636212753 0.680234803 7.372597e-01 0.776613347 8.160430e-01
## 347 -0.549066903 -0.503412008 -4.558887e-01 -0.415312473 -3.862970e-01
## 348 2.503387012 2.530270940 2.559876e+00 2.591375316 2.613765e+00
## 349 0.433883676 0.466181117 4.982979e-01 0.524781214 5.502157e-01
## 350 0.821838869 0.848948892 8.827894e-01 0.913304330 9.362587e-01
## 351 1.249502202 1.278712966 1.304835e+00 1.327118112 1.341497e+00
## 352 0.522657696 0.560804112 6.017114e-01 0.642917728 6.665785e-01
## 353 0.262960320 0.321542447 3.751350e-01 0.416779450 4.535807e-01
## 354 0.259903597 0.303655475 3.424365e-01 0.371346930 3.923014e-01
## 355 1.165777691 1.198764961 1.229677e+00 1.259184950 1.286947e+00
## 356 0.635527945 0.682769257 7.278223e-01 0.769977727 8.033512e-01
## 357 0.750382630 0.767911810 7.831278e-01 0.797617199 8.124976e-01
## 358 -0.067263137 -0.024790734 1.517679e-02 0.041874554 6.743164e-02
## 359 0.955270625 1.004066584 1.039890e+00 1.072811338 1.100774e+00
## 360 -1.073149414 -1.016000777 -9.595435e-01 -0.906449977 -8.774769e-01
## 361 -0.275073143 -0.241548568 -2.099103e-01 -0.182362136 -1.623978e-01
## 362 -0.014930433 0.028250154 6.704576e-02 0.103100014 1.413245e-01
## 363 -0.081484800 -0.040855428 6.089248e-05 0.032084518 6.297416e-02
## 364 1.791530276 1.824570027 1.855906e+00 1.885148291 1.910580e+00
## 365 0.744457898 0.786420408 8.196174e-01 0.851178842 8.762835e-01
## 366 -0.891375965 -0.856616402 -8.220090e-01 -0.789508420 -7.651382e-01
## 367 -0.701113809 -0.666814329 -6.330015e-01 -0.605915926 -5.883004e-01
## 368 0.809409886 0.846103810 8.820914e-01 0.908837094 9.345661e-01
## 369 -1.081535999 -1.026232953 -9.742277e-01 -0.931971768 -8.974973e-01
## 370 -0.228877128 -0.199952250 -1.756808e-01 -0.156834553 -1.388289e-01
## 371 -1.778992412 -1.719246590 -1.658407e+00 -1.603351681 -1.569357e+00
## 372 1.262587771 1.291034695 1.317825e+00 1.343501412 1.365995e+00
## 373 -0.191221904 -0.160589433 -1.304254e-01 -0.100886129 -7.421041e-02
## 374 1.388000159 1.442648997 1.487439e+00 1.531729221 1.562288e+00
## 375 1.026686250 1.051707043 1.076242e+00 1.099945871 1.121100e+00
## 376 -1.451705064 -1.414642051 -1.376674e+00 -1.340608216 -1.319859e+00
## 377 1.448128477 1.480230437 1.511356e+00 1.541537779 1.568589e+00
## 378 2.888211737 2.911214549 2.932890e+00 2.955620460 2.978941e+00
## 379 1.854048678 1.895605824 1.932068e+00 1.969615364 1.994936e+00
## 380 -0.222368371 -0.188051061 -1.578916e-01 -0.133580300 -1.196872e-01
## 381 0.225138725 0.250657554 2.735155e-01 0.293847998 3.110498e-01
## 382 1.013268652 1.034297883 1.056681e+00 1.076194940 1.094807e+00
## 383 1.763661896 1.790992252 1.809822e+00 1.853798741 1.880556e+00
## 384 -0.288257959 -0.251276387 -2.136557e-01 -0.176468414 -1.538538e-01
## 385 -0.390985821 -0.369228428 -3.476528e-01 -0.326260772 -3.056995e-01
## 386 0.154098941 0.199738842 2.455052e-01 0.289352634 3.233218e-01

```

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## 387 -0.589575260 -0.543052511 -5.072241e-01 -0.479982365 -4.545850e-01
## 388 0.350194792 0.388755713 4.253919e-01 0.467446922 4.957567e-01
## 389 1.595161081 1.625842966 1.649469e+00 1.670121839 1.690681e+00
## 390 1.011363135 1.041146690 1.074122e+00 1.107669716 1.131738e+00
## 391 1.507850121 1.545809795 1.581203e+00 1.604564828 1.627087e+00
## 392 2.267586137 2.338112679 2.401676e+00 2.449765983 2.471251e+00
## 393 -0.769460521 -0.705718761 -6.426384e-01 -0.585596584 -5.464511e-01
## 394 0.239118162 0.261694793 2.819499e-01 0.296366780 3.091491e-01
## 395 0.362564383 0.425481506 4.797654e-01 0.518701420 5.425103e-01
## 396 2.563531016 2.597014894 2.630241e+00 2.654658546 2.678549e+00
## 397 1.428780527 1.474696541 1.523927e+00 1.572315386 1.596862e+00
## 398 1.158832997 1.211370852 1.267543e+00 1.305761605 1.333658e+00
## 399 -0.993007349 -0.944666729 -9.000923e-01 -0.860509847 -8.253310e-01
## 400 0.143750433 0.192021481 2.348243e-01 0.272011747 3.036641e-01
## 401 2.042919814 2.086651514 2.128954e+00 2.160624434 2.190958e+00
## 402 1.843691062 1.922008404 1.995007e+00 2.074064442 2.115278e+00
## 403 2.055055371 2.088403951 2.115235e+00 2.142027229 2.166344e+00
## 404 1.439056183 1.480819187 1.520703e+00 1.548696837 1.575910e+00
## 405 -0.441560410 -0.399082759 -3.564755e-01 -0.320165557 -2.857460e-01
## 406 1.073511040 1.107510084 1.143732e+00 1.166543868 1.188249e+00
## 407 -0.630380956 -0.584781073 -5.362480e-01 -0.487200601 -4.508848e-01
## 408 -0.297196208 -0.254533420 -2.129272e-01 -0.181260587 -1.507557e-01
## 409 1.642448801 1.676861666 1.703750e+00 1.731234370 1.756870e+00
## 410 -0.186095903 -0.146686131 -1.092145e-01 -0.073197985 -4.266891e-02
## 411 1.613258227 1.665736863 1.724523e+00 1.770199700 1.796587e+00
## 412 1.691963330 1.715704795 1.738382e+00 1.759810261 1.779205e+00
## 413 1.033942581 1.080592291 1.116396e+00 1.152004007 1.184283e+00
## 414 0.091281605 0.132740040 1.649547e-01 0.197802513 2.285342e-01
## 415 0.974095345 1.028521951 1.080558e+00 1.113159814 1.144073e+00
## 416 -0.129622740 -0.080632431 -3.420115e-02 0.015035849 3.821911e-02
## 417 1.721946459 1.759155396 1.798905e+00 1.838917134 1.862654e+00
## 418 0.863815061 0.889654173 9.227708e-01 0.951000942 9.796202e-01
## 419 0.240288668 0.308353486 3.793733e-01 0.438373420 4.780900e-01
## 420 0.417568615 0.455586428 4.899191e-01 0.520075012 5.433776e-01
## 421 0.252138904 0.286981840 3.211521e-01 0.347318509 3.724597e-01
## 422 0.725151130 0.760111753 7.946397e-01 0.821533172 8.475014e-01
## 423 1.225400822 1.272220459 1.314362e+00 1.350596547 1.376899e+00
## 424 0.651598510 0.696066734 7.333039e-01 0.765292615 7.951670e-01
## 425 0.853995012 0.892349610 9.220003e-01 0.951507718 9.782334e-01
## 426 1.377242088 1.418027054 1.450380e+00 1.483073314 1.513226e+00
## 427 -0.231239306 -0.194147716 -1.578157e-01 -0.125158795 -9.540777e-02
## 428 1.414061359 1.442807969 1.473029e+00 1.508159224 1.537463e+00
## 429 1.368566573 1.406754858 1.444501e+00 1.480641913 1.504020e+00
## 430 0.826704003 0.862038706 8.932155e-01 0.920361357 9.432950e-01
## 431 -0.655348629 -0.642786774 -6.012233e-01 -0.557736780 -5.312059e-01
## 432 -0.626491378 -0.568679770 -5.085000e-01 -0.449632323 -4.099185e-01
## 433 0.996134646 1.020818299 1.045388e+00 1.067975880 1.087008e+00
## 434 0.449716969 0.477621946 5.083791e-01 0.537956199 5.568800e-01
## 435 0.364034409 0.403813786 4.350933e-01 0.467723929 4.989811e-01
## 436 -0.062346727 0.001612685 6.818775e-02 0.118454095 1.568999e-01
## 437 2.065983795 2.090548094 2.113538e+00 2.135230237 2.154935e+00
## 438 0.713824102 0.731194593 7.496075e-01 0.768890829 7.860231e-01
## 439 1.439793673 1.461359878 1.479266e+00 1.498302546 1.516643e+00
## 440 -0.264576154 -0.214079108 -1.698627e-01 -0.121477470 -8.779894e-02

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## 441 -0.357053899 -0.309209809 -2.621383e-01 -0.224400296 -1.923808e-01
## 442 -0.041996673 0.003112458 4.348799e-02 0.078604281 1.071865e-01
## 443 0.870829713 0.904494896 9.409481e-01 0.981389352 1.012108e+00
## 444 2.449702557 2.490186801 2.529448e+00 2.554840949 2.579461e+00
## 445 1.094991305 1.123619208 1.152031e+00 1.179737410 1.204076e+00
## 446 2.422134404 2.439235113 2.455269e+00 2.471431456 2.487570e+00
## 447 -0.398286877 -0.348692628 -3.006906e-01 -0.269568793 -2.397105e-01
## 448 -0.100206548 -0.077296342 -5.407700e-02 -0.030976401 -1.130860e-02
## 449 1.301551463 1.342898608 1.378726e+00 1.401420056 1.423047e+00
## 450 0.895798469 0.920106529 9.452456e-01 0.970869041 9.934504e-01
## 451 0.258454784 0.286945884 3.152331e-01 0.338164142 3.598137e-01
## 452 -0.773605887 -0.739868053 -7.073655e-01 -0.674056208 -6.431044e-01
## 453 1.383539712 1.424962741 1.466631e+00 1.506945553 1.538930e+00
## 454 -1.106058912 -1.076451270 -1.049249e+00 -1.023289463 -1.000598e+00
## 455 0.234176269 0.266133660 2.996985e-01 0.333021229 3.531870e-01
## 456 2.431014508 2.485428729 2.538070e+00 2.589382913 2.631906e+00
## 457 0.464939629 0.510776622 5.465869e-01 0.582160368 6.143104e-01
## 458 -0.589194132 -0.543454392 -5.012983e-01 -0.464334652 -4.508903e-01
## 459 0.321152334 0.347308879 3.713759e-01 0.394466066 4.161322e-01
## 460 1.529148519 1.568614545 1.605635e+00 1.638496042 1.664264e+00
## 461 0.506406945 0.548773049 5.858253e-01 0.616333884 6.488134e-01
## 462 0.025317276 0.059433053 9.340853e-02 0.125318039 1.546288e-01
## 463 1.119453815 1.162841691 1.202742e+00 1.238671298 1.268805e+00
## 464 0.965152451 1.003421063 1.036825e+00 1.064458814 1.083026e+00
## 465 3.040848240 3.072197423 3.102648e+00 3.129639497 3.155658e+00
## 466 1.234422332 1.252916549 1.270787e+00 1.286429814 1.301406e+00
## 467 -1.349905114 -1.296697743 -1.249585e+00 -1.202899195 -1.171174e+00
## 468 0.177813419 0.217071499 2.571143e-01 0.304350186 3.283999e-01
## 469 0.696901427 0.743588551 7.842224e-01 0.825215726 8.628611e-01
## 470 -1.044050944 -1.023003729 -1.003522e+00 -0.985987766 -9.706800e-01
## 471 -1.170706897 -1.139748907 -1.111072e+00 -1.088632886 -1.068353e+00
## 472 -1.728616539 -1.698427676 -1.668626e+00 -1.639902702 -1.616377e+00
## 473 2.988264322 3.023140145 3.054017e+00 3.081999253 3.106993e+00
## 474 -0.134844393 -0.101150917 -6.888293e-02 -0.038091912 -1.142861e-02
## 475 0.094463337 0.132185015 1.677264e-01 0.200090501 2.269239e-01
## 476 0.827658744 0.877368021 9.256287e-01 0.974952616 1.008665e+00
## 477 0.751992074 0.788165650 8.226534e-01 0.849441253 8.754022e-01
## 478 0.736958767 0.772748070 8.080553e-01 0.841229751 8.712374e-01
## 479 -0.308569912 -0.274013797 -2.468884e-01 -0.218805418 -1.921083e-01
## 480 -0.717883368 -0.670714205 -6.309478e-01 -0.602434231 -5.865488e-01
## 481 2.624508948 2.676822456 2.728909e+00 2.763185380 2.796067e+00
## 482 0.149016363 0.190718254 2.323806e-01 0.271613445 2.942905e-01
## 483 0.487638656 0.534793244 5.635409e-01 0.593734310 6.226835e-01
## 484 1.331619060 1.396693405 1.451928e+00 1.501369024 1.546133e+00
## 485 2.235140344 2.280011290 2.321536e+00 2.352837074 2.374456e+00
## 486 1.491591939 1.513266478 1.534867e+00 1.555214118 1.573847e+00
## 487 2.676193094 2.717871456 2.757704e+00 2.803738840 2.828189e+00
## 488 0.979394168 1.017346823 1.051119e+00 1.085317046 1.116959e+00
## 489 0.606578817 0.646390899 6.789139e-01 0.712949351 7.455139e-01
## 490 2.555533883 2.601684899 2.647832e+00 2.684749213 2.720421e+00
## 491 0.773057425 0.806093148 8.355752e-01 0.878365764 9.167297e-01
## 492 0.747892085 0.790922664 8.327139e-01 0.859790978 8.858565e-01
## 493 -0.313454667 -0.290790342 -2.718281e-01 -0.256771314 -2.440820e-01
## 494 2.221397551 2.257940045 2.289533e+00 2.314858688 2.332802e+00

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## 495 0.713116261 0.755983251 7.899090e-01 0.823486727 8.537925e-01
## 496 0.158402470 0.190975719 2.293379e-01 0.269757480 2.977158e-01
## 497 0.653145075 0.689585902 7.216463e-01 0.748337944 7.686229e-01
## 498 -0.525557214 -0.475457313 -4.361050e-01 -0.394956209 -3.553404e-01
## 499 0.367636166 0.423424495 4.805628e-01 0.518109070 5.537495e-01
## 500 0.998000820 1.037890793 1.075507e+00 1.102385238 1.128257e+00
## 501 0.372515145 0.403005274 4.329714e-01 0.461795869 4.859370e-01
## 502 0.996668070 1.049379690 1.103286e+00 1.155363137 1.189877e+00
## 503 0.893069437 0.934162786 9.694596e-01 1.004609534 1.035520e+00
## 504 0.422249168 0.465971120 5.156104e-01 0.556615297 5.800010e-01
## 505 0.640665193 0.688097630 7.348948e-01 0.771772786 7.943726e-01
## 506 1.468391719 1.508898489 1.552413e+00 1.580547307 1.608123e+00
## 507 1.012006664 1.053664793 1.093987e+00 1.132840543 1.165892e+00
## 508 0.567240275 0.610404069 6.433579e-01 0.676048143 7.056170e-01
## 509 0.477606874 0.500795605 5.234426e-01 0.542962045 5.598655e-01
## 510 1.075974683 1.118438953 1.158321e+00 1.193117503 1.219128e+00
## 511 -0.088309234 -0.038749608 7.680830e-03 0.042535565 6.115448e-02
## 512 0.930346413 0.976162617 1.017101e+00 1.057462783 1.092233e+00
## 513 0.156130666 0.206260118 2.513002e-01 0.290619357 3.269305e-01
## 514 0.231755330 0.281236396 3.328338e-01 0.386936287 4.238237e-01
## 515 -0.515935442 -0.482325153 -4.535193e-01 -0.425450378 -4.005575e-01
## 516 -0.355545299 -0.303989131 -2.629597e-01 -0.223227572 -1.902888e-01
## 517 -0.164566443 -0.129412245 -9.595569e-02 -0.069285448 -4.540281e-02
## 518 1.012593779 1.045576978 1.076382e+00 1.105939845 1.133260e+00
## 519 -0.359246235 -0.303786856 -2.466592e-01 -0.190089234 -1.521433e-01
## 520 1.241630768 1.275123017 1.308504e+00 1.340201099 1.366761e+00
## 521 -0.853839069 -0.803298093 -7.491972e-01 -0.694055530 -6.636899e-01
## 522 0.677224922 0.711752986 7.504646e-01 0.790296586 8.189502e-01
## 523 2.075510420 2.114185175 2.148508e+00 2.176808686 2.196608e+00
## 524 1.200894370 1.243135740 1.282354e+00 1.319285832 1.347566e+00
## 525 0.028243545 0.073721959 1.204684e-01 0.158658668 1.824053e-01
## 526 -0.258770970 -0.210903895 -1.720615e-01 -0.132465273 -9.566225e-02
## 527 0.565465321 0.601064312 6.347722e-01 0.654172929 6.722939e-01
## 528 0.251486343 0.282252147 3.230830e-01 0.354746225 3.867635e-01
## 529 1.995495288 2.035935921 2.071638e+00 2.107991842 2.141836e+00
## 530 1.186937522 1.210784817 1.234724e+00 1.257474516 1.278496e+00
## 531 0.011397300 0.033841517 5.751388e-02 0.082011381 1.050333e-01
## 532 0.326056798 0.369860512 4.097572e-01 0.443549167 4.686811e-01
## 533 -0.546000089 -0.502052612 -4.571749e-01 -0.414186353 -3.781326e-01
## 534 2.819308265 2.850246939 2.880494e+00 2.905481390 2.929583e+00
## 535 0.208348458 0.254823344 2.985049e-01 0.346790121 3.766315e-01
## 536 -0.120330407 -0.081197462 -4.583669e-02 -0.014458188 1.132504e-02
## 537 0.853363425 0.872361353 8.973953e-01 0.929668243 9.482410e-01
## 538 0.404547408 0.441132796 4.745257e-01 0.503731503 5.289619e-01
## 539 2.099576983 2.155654412 2.200409e+00 2.231824156 2.262473e+00
## 540 0.614297816 0.665109288 7.188433e-01 0.779164975 8.176656e-01
## 541 0.948572942 0.977272877 1.003570e+00 1.027743698 1.048875e+00
## 542 -1.448699454 -1.410049352 -1.373940e+00 -1.348060026 -1.323399e+00
## 543 0.202471790 0.255890848 3.053420e-01 0.347941070 3.802843e-01
## 544 0.328878227 0.366784000 4.059373e-01 0.444497090 4.698934e-01
## 545 2.003059189 2.034552241 2.064826e+00 2.091491833 2.115750e+00
## 546 0.481816663 0.543933943 6.006647e-01 0.646878909 6.841952e-01
## 547 1.103650953 1.148202903 1.186091e+00 1.225671096 1.263460e+00
## 548 1.725795243 1.780589914 1.835152e+00 1.883094661 1.914075e+00

```

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## 549 0.899003666 0.934240444 9.740987e-01 1.015471427 1.039042e+00
## 550 0.617415643 0.681099007 7.415880e-01 0.795894795 8.269481e-01
## 551 1.212332213 1.243764420 1.286775e+00 1.304524088 1.321571e+00
## 552 2.191480111 2.220583493 2.251802e+00 2.287623167 2.315923e+00
## 553 -0.694766483 -0.652533363 -6.105616e-01 -0.556200052 -5.254707e-01
## 554 -0.271449655 -0.226227134 -1.796500e-01 -0.135365234 -1.040947e-01
## 555 1.563925613 1.587742370 1.610522e+00 1.628650881 1.644716e+00
## 556 1.857167758 1.918330562 1.982988e+00 2.033779313 2.079488e+00
## 557 0.673935192 0.708062555 7.444282e-01 0.769518570 7.936783e-01
## 558 0.598883169 0.653828180 7.096176e-01 0.761051092 7.885653e-01
## 559 0.922485428 0.958854745 9.951080e-01 1.032208815 1.061360e+00
## 560 -1.745234577 -1.718719361 -1.687575e+00 -1.648006205 -1.613946e+00
## 561 -0.022689490 0.039692093 9.370603e-02 0.130718903 1.665289e-01
## 562 -0.103840809 -0.069273935 -3.923510e-02 -0.013691249 6.626529e-03
## 563 1.559596138 1.609965755 1.662145e+00 1.711999385 1.736840e+00
## 564 1.519955752 1.558077054 1.592345e+00 1.626422060 1.657449e+00
## 565 0.753459640 0.785483246 8.139977e-01 0.843076089 8.702057e-01
## 566 0.711385466 0.744865523 7.669432e-01 0.790026641 8.121088e-01
## 567 0.661819637 0.714287429 7.620411e-01 0.805033131 8.348364e-01
## 568 2.293133283 2.349304464 2.397811e+00 2.445618084 2.481443e+00
## 569 1.231885261 1.265038346 1.293674e+00 1.316002427 1.333039e+00
## 570 1.617600589 1.654250443 1.686773e+00 1.720505377 1.752245e+00
## 571 -0.602059495 -0.554505386 -5.127430e-01 -0.478496271 -4.567908e-01
## 572 1.917110140 1.935154522 1.950543e+00 1.966758550 1.980823e+00
## 573 2.180531296 2.200405886 2.219026e+00 2.235669985 2.248499e+00
## 574 -0.935876357 -0.895048307 -8.540675e-01 -0.813835981 -7.784874e-01
## 575 1.711547332 1.756065306 1.791163e+00 1.827172170 1.858963e+00
## 576 1.756666198 1.807273637 1.861682e+00 1.903765859 1.933617e+00
## 577 -0.053154349 -0.018226365 1.167046e-02 0.035211967 5.092673e-02
## 578 -1.179275653 -1.141769699 -1.106166e+00 -1.071181576 -1.044444e+00
## 579 1.890823699 1.942383028 1.986960e+00 2.022286651 2.049000e+00
## 580 0.418161493 0.458814956 4.985476e-01 0.545847610 5.734258e-01
## 581 0.801389634 0.840825299 8.798225e-01 0.911594208 9.420031e-01
## 582 0.981281996 1.029396815 1.077354e+00 1.122467243 1.159950e+00
## 583 0.800649623 0.838844201 8.781980e-01 0.909806179 9.255147e-01
## 584 0.196009863 0.230550573 2.649555e-01 0.298333840 3.265960e-01
## 585 0.933598251 0.961775033 9.894980e-01 1.014820693 1.039063e+00
## 586 2.018863421 2.044564272 2.069546e+00 2.093923806 2.115496e+00
## 587 0.769660268 0.800592485 8.269298e-01 0.848783305 8.661310e-01
## 588 2.326797091 2.353549997 2.379754e+00 2.404959052 2.426893e+00
## 589 1.394592755 1.435978137 1.473681e+00 1.514526819 1.535438e+00
## 590 1.539823875 1.570272223 1.600295e+00 1.627536751 1.649062e+00
## 591 1.379455635 1.404432738 1.425653e+00 1.442736838 1.454729e+00
## 592 1.214572052 1.260069271 1.303699e+00 1.348283170 1.376389e+00
## 593 0.069278722 0.091615344 1.146632e-01 0.136635203 1.559778e-01
## 594 -1.718327738 -1.677709399 -1.638852e+00 -1.598327016 -1.570945e+00
## 595 -0.787868077 -0.743103399 -7.015045e-01 -0.674480397 -6.484784e-01
## 596 -0.789640395 -0.756555010 -7.206409e-01 -0.686773774 -6.643866e-01
## 597 2.310926666 2.353073151 2.395230e+00 2.431362734 2.456621e+00
## 598 -0.181346809 -0.146265454 -1.159750e-01 -0.095961759 -7.673756e-02
## 599 0.452860463 0.480127704 5.062490e-01 0.531234771 5.512795e-01
## 600 -0.522612184 -0.481753272 -4.426483e-01 -0.405589436 -3.740713e-01
## 601 0.612596035 0.643235406 6.673642e-01 0.691472489 7.176475e-01
## 602 0.274103478 0.300038675 3.254675e-01 0.348509706 3.707412e-01

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## 603 1.248410097 1.295405016 1.336952e+00 1.378264051 1.415874e+00
## 604 0.320348898 0.359599603 3.984182e-01 0.427964115 4.544892e-01
## 605 2.637295795 2.675991937 2.711808e+00 2.745133778 2.774850e+00
## 606 0.682968755 0.728444493 7.710144e-01 0.800040270 8.280591e-01
## 607 1.236311947 1.286304742 1.335420e+00 1.367031199 1.396194e+00
## 608 -1.401708469 -1.367641174 -1.334292e+00 -1.302662112 -1.274715e+00
## 609 0.452218440 0.477604149 5.027105e-01 0.527013369 5.473176e-01
## 610 1.571931882 1.618254019 1.658960e+00 1.700744801 1.740092e+00
## 611 1.010363116 1.033744211 1.055989e+00 1.076867777 1.095786e+00
## 612 0.824537522 0.873046975 9.237430e-01 0.974447160 1.014051e+00
## 613 1.234243451 1.257964614 1.281492e+00 1.303955368 1.325642e+00
## 614 1.100336139 1.139538640 1.177115e+00 1.212599960 1.243569e+00
## 615 1.788936517 1.817591823 1.846994e+00 1.874516611 1.899702e+00
## 616 0.870654980 0.910356434 9.490069e-01 0.980174932 1.010185e+00
## 617 1.223736159 1.269681308 1.312964e+00 1.340851638 1.367824e+00
## 618 2.355777182 2.395104487 2.436766e+00 2.466348216 2.495074e+00
## 619 1.088867734 1.120460959 1.151632e+00 1.179873679 1.204680e+00
## 620 1.079560434 1.130500661 1.177485e+00 1.212160402 1.245134e+00
## 621 0.917767217 0.959916762 9.983152e-01 1.037881725 1.075070e+00
## 622 2.053410898 2.081118363 2.107751e+00 2.133361226 2.155600e+00
## 623 2.105033848 2.128980213 2.153292e+00 2.178638836 2.202895e+00
## 624 1.655309805 1.692586514 1.728342e+00 1.762462043 1.792953e+00
## 625 1.684618330 1.731205827 1.781435e+00 1.830714625 1.879228e+00
## 626 0.456689464 0.499340551 5.423975e-01 0.583318449 6.078983e-01
## 627 0.248175943 0.272046403 2.967310e-01 0.324590797 3.513510e-01
## 628 1.855798507 1.882367102 1.908576e+00 1.932658256 1.955734e+00
## 629 0.167203104 0.212824110 2.575730e-01 0.293412929 3.277025e-01
## 630 3.150706772 3.172133263 3.193447e+00 3.214370536 3.231520e+00
## 631 -0.973072032 -0.925255366 -8.841720e-01 -0.837295855 -7.918014e-01
## 632 0.682596348 0.718960868 7.538222e-01 0.785517280 8.143392e-01
## 633 -0.073808633 -0.028283612 1.052830e-02 0.041141971 6.387547e-02
## 634 -1.236339934 -1.216948888 -1.197910e+00 -1.179294427 -1.164213e+00
## 635 3.413287154 3.458411020 3.501768e+00 3.541303668 3.577173e+00
## 636 1.552070483 1.579124651 1.604641e+00 1.626910392 1.647237e+00
## 637 -1.038571761 -1.008826723 -9.811721e-01 -0.958872351 -9.481779e-01
## 638 0.190217386 0.235617504 2.777489e-01 0.317630396 3.532221e-01
## 639 0.526732178 0.552710426 5.777647e-01 0.602049020 6.212278e-01
## 640 -0.597082832 -0.560153936 -5.302536e-01 -0.509422903 -4.953518e-01
## 641 0.650861283 0.689641671 7.276079e-01 0.764397952 7.929304e-01
## 642 1.139072130 1.174387745 1.209539e+00 1.244703776 1.277373e+00
## 643 1.851176523 1.885029978 1.915039e+00 1.939565310 1.959291e+00
## 644 -0.486971146 -0.435812563 -3.867213e-01 -0.338295296 -2.954457e-01
## 645 0.685462320 0.744465575 8.027993e-01 0.844167887 8.837063e-01
## 646 0.792659719 0.835825163 8.780614e-01 0.904225741 9.291086e-01
## 647 0.709492234 0.746239533 7.843820e-01 0.823706036 8.600979e-01
## 648 0.324626211 0.351524721 3.786099e-01 0.404022872 4.272378e-01
## 649 1.819536598 1.834007634 1.847401e+00 1.859882904 1.868562e+00
## 650 0.434300101 0.476326111 5.222646e-01 0.554645946 5.854458e-01
## 651 1.914321391 1.968305902 2.012846e+00 2.057283423 2.096492e+00
## 652 1.481287065 1.520945677 1.559648e+00 1.596466317 1.627812e+00
## 653 0.546540800 0.595112206 6.422157e-01 0.686048878 7.229110e-01
## 654 -0.752690069 -0.715755331 -6.800118e-01 -0.657210880 -6.360473e-01
## 655 0.705087806 0.744923076 7.782522e-01 0.805471216 8.264999e-01
## 656 0.710801897 0.743407235 7.755001e-01 0.804835719 8.317168e-01

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##	657	1.474770531	1.505217839	1.535702e+00	1.564646079	1.592416e+00
##	658	0.244184015	0.285116967	3.248941e-01	0.363929410	3.995579e-01
##	659	0.982374555	1.022086370	1.061448e+00	1.087666807	1.112066e+00
##	660	1.277272761	1.296295030	1.315647e+00	1.333045095	1.348562e+00
##	661	1.978397379	2.023298218	2.067117e+00	2.101688435	2.135309e+00
##	662	-0.273234416	-0.216723169	-1.748623e-01	-0.141868449	-1.134362e-01
##	663	1.453692188	1.489254049	1.526303e+00	1.563096213	1.587375e+00
##	664	1.234857687	1.265396177	1.296007e+00	1.324927172	1.351591e+00
##	665	0.720401607	0.739569184	7.630692e-01	0.780877110	7.987593e-01
##	666	-0.628477887	-0.577391960	-5.295672e-01	-0.495362460	-4.707595e-01
##	667	0.951858886	0.987596517	1.022952e+00	1.058707591	1.092372e+00
##	668	0.586701719	0.633944742	6.668466e-01	0.701914978	7.360935e-01
##	669	0.067326256	0.095177833	1.245211e-01	0.155027195	1.823825e-01
##	670	0.612250170	0.650436486	6.908716e-01	0.731781511	7.597421e-01
##	671	1.725105255	1.763082475	1.799412e+00	1.833320036	1.862309e+00
##	672	1.995239909	2.041944458	2.082668e+00	2.121733694	2.155686e+00
##	673	1.206263542	1.234231023	1.261978e+00	1.287911726	1.311577e+00
##	674	0.019559769	0.067894071	1.121814e-01	0.156322471	1.964528e-01
##	675	0.167570237	0.213837117	2.574185e-01	0.287057822	3.143334e-01
##	676	-0.539926580	-0.502959237	-4.666401e-01	-0.434799333	-4.070296e-01
##	677	0.200035847	0.238131708	2.670327e-01	0.284223688	3.021299e-01
##	678	1.268609294	1.305934249	1.333244e+00	1.351167805	1.362994e+00
##	679	-0.953661332	-0.921064110	-8.811935e-01	-0.831949052	-7.912658e-01
##	680	-0.511583616	-0.476593986	-4.424081e-01	-0.408667888	-3.780152e-01
##	681	1.210495814	1.257108917	1.298417e+00	1.334297867	1.363423e+00
##	682	0.908346961	0.937876702	9.680703e-01	1.001856494	1.033443e+00
##	683	-0.307147912	-0.260034487	-2.166023e-01	-0.174584768	-1.387078e-01
##	684	0.790748305	0.812559641	8.350984e-01	0.856737633	8.759436e-01
##	685	1.062438262	1.099662344	1.131347e+00	1.156161123	1.175947e+00
##	686	1.273010126	1.311483392	1.350549e+00	1.390511654	1.428015e+00
##	687	-0.017301143	0.025131603	6.677928e-02	0.107816957	1.454476e-01
##	688	1.301028482	1.340810461	1.379240e+00	1.410436128	1.438344e+00
##	689	0.558562307	0.597107232	6.322329e-01	0.661365581	6.786936e-01
##	690	-0.400504413	-0.359800708	-3.264249e-01	-0.292998456	-2.624224e-01
##	691	0.203871978	0.251519865	2.937205e-01	0.330139531	3.585829e-01
##	692	1.743693741	1.769744566	1.792683e+00	1.813090316	1.830896e+00
##	693	0.418986113	0.444973821	4.723138e-01	0.504875719	5.406202e-01
##	694	1.300821542	1.331842487	1.362489e+00	1.390305370	1.414502e+00
##	695	0.466138613	0.495582073	5.252377e-01	0.554372061	5.779224e-01
##	696	0.205653735	0.231702975	2.585903e-01	0.286531037	3.131296e-01
##	697	0.374234143	0.409486090	4.434276e-01	0.476529165	5.071585e-01
##	698	0.968045155	1.011363794	1.055075e+00	1.084902174	1.113783e+00
##	699	0.855998462	0.901314606	9.442179e-01	0.984537338	1.018913e+00
##	700	0.464180330	0.500082028	5.341137e-01	0.559534766	5.840171e-01
##	701	1.620230095	1.659649408	1.693670e+00	1.720552801	1.745680e+00
##	702	2.096075331	2.127283714	2.158709e+00	2.190109494	2.218533e+00
##	703	-1.207112537	-1.157480961	-1.110020e+00	-1.074420156	-1.041941e+00
##	704	2.105431669	2.138034493	2.166448e+00	2.191650559	2.214507e+00
##	705	2.107438153	2.129655306	2.149552e+00	2.167374622	2.183325e+00
##	706	-0.046519380	-0.003185599	3.842932e-02	0.073954828	1.061873e-01
##	707	1.739905771	1.760425906	1.779887e+00	1.798060104	1.814483e+00
##	708	3.630151553	3.673491139	3.718255e+00	3.762703236	3.796181e+00
##	709	-0.287559506	-0.251368364	-2.159614e-01	-0.182700004	-1.548004e-01
##	710	-0.843510853	-0.790276211	-7.477873e-01	-0.716737675	-6.966770e-01

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## 711 0.108934347 0.131022470 1.487533e-01 0.162898828 1.735616e-01
## 712 0.416522751 0.457591828 4.908914e-01 0.526459775 5.608926e-01
## 713 0.738829468 0.797544103 8.558277e-01 0.925506093 9.698808e-01
## 714 1.331376671 1.365407280 1.399147e+00 1.430979496 1.458863e+00
## 715 1.176557563 1.211745246 1.244006e+00 1.274172695 1.299756e+00
## 716 1.773906520 1.827637364 1.867897e+00 1.907601446 1.943396e+00
## 717 0.058523823 0.101920261 1.450579e-01 0.184779779 2.195222e-01
## 718 -0.406647667 -0.380076374 -3.528759e-01 -0.326425089 -3.033720e-01
## 719 0.105643122 0.137409095 1.680272e-01 0.195456469 2.206166e-01
## 720 0.596908704 0.632925499 6.658558e-01 0.692573765 7.170863e-01
## 721 -0.861278713 -0.858113162 -8.531808e-01 -0.843592789 -8.287555e-01
## 722 -0.530388986 -0.499818554 -4.722147e-01 -0.448187013 -4.275424e-01
## 723 -0.168073882 -0.132649689 -9.760949e-02 -0.060602026 -4.116226e-02
## 724 0.040370109 0.063032721 8.439893e-02 0.103466664 1.198295e-01
## 725 0.498985621 0.536874231 5.705159e-01 0.596070069 6.080201e-01
## 726 1.539908579 1.558996257 1.578381e+00 1.595659947 1.610984e+00
## 727 0.913305215 0.957345510 9.922022e-01 1.027987057 1.061695e+00
## 728 -1.384692590 -1.319109761 -1.258143e+00 -1.203183881 -1.158051e+00
## 729 0.551016294 0.567660053 5.845008e-01 0.600940092 6.157413e-01
## 730 0.061774676 0.093509889 1.235296e-01 0.147313109 1.694065e-01
## 731 -0.288269270 -0.235292949 -1.841736e-01 -0.135832513 -9.670273e-02
## 732 0.187041167 0.215836373 2.443822e-01 0.271105260 2.944482e-01
## 733 2.055129724 2.089575901 2.122951e+00 2.155918568 2.185314e+00
## 734 2.1165556970 2.171556674 2.217511e+00 2.261565351 2.299992e+00
## 735 1.088456663 1.119179276 1.150639e+00 1.181236695 1.207781e+00
## 736 0.953490966 0.999873290 1.042405e+00 1.079509867 1.110210e+00
## 737 1.736233570 1.765503211 1.797462e+00 1.830784652 1.854195e+00
## 738 0.101044731 0.130180351 1.597506e-01 0.189839809 2.175692e-01
## 739 0.657102125 0.693877565 7.269600e-01 0.755449998 7.799072e-01
## 740 0.421513346 0.444633901 4.678921e-01 0.487649662 5.045981e-01
## 741 0.824393382 0.868782109 8.989267e-01 0.931665933 9.638418e-01
## 742 0.884816098 0.927064062 9.674459e-01 1.012944153 1.048358e+00
## 743 2.161947246 2.191916813 2.220299e+00 2.241797282 2.261361e+00
## 744 2.506098942 2.556424670 2.604961e+00 2.641566927 2.673712e+00
## 745 2.095716232 2.132539603 2.167900e+00 2.201830093 2.229343e+00
## 746 0.382967924 0.431695020 4.812861e-01 0.516428705 5.486990e-01
## 747 1.165282157 1.187553103 1.210274e+00 1.232907367 1.253698e+00
## 748 2.355982759 2.396473334 2.438666e+00 2.468576852 2.497476e+00
## 749 0.462549672 0.508649399 5.542668e-01 0.599055921 6.358746e-01
## 750 0.810069058 0.844487923 8.753860e-01 0.901622014 9.214086e-01
## 751 -0.075019165 -0.042685758 -9.815448e-03 0.023546643 5.490738e-02
## 752 0.567800172 0.615376329 6.607261e-01 0.704260629 7.421036e-01
## 753 1.143472680 1.177612512 1.212488e+00 1.249369813 1.285855e+00
## 754 -0.302460164 -0.264060484 -2.265506e-01 -0.191722185 -1.596769e-01
## 755 0.691630162 0.731702039 7.704169e-01 0.807622585 8.410059e-01
## 756 2.115342825 2.139439136 2.163012e+00 2.186597589 2.208465e+00
## 757 1.722809303 1.746769167 1.779183e+00 1.802031224 1.823918e+00
## 758 0.453979147 0.496621889 5.393771e-01 0.581208337 6.178685e-01
## 759 -0.170346511 -0.109909084 -5.119015e-02 0.004556658 4.008910e-02
## 760 0.534329301 0.585268594 6.338375e-01 0.679901166 7.203503e-01
## 761 -0.241453447 -0.208230037 -1.735543e-01 -0.149543952 -1.264864e-01
## 762 0.888297205 0.935781796 9.805904e-01 1.011151509 1.040324e+00
## 763 1.024430509 1.046360744 1.064435e+00 1.077695146 1.087437e+00
## 764 -0.439298542 -0.398915049 -3.644117e-01 -0.328274854 -2.966711e-01

```

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## 765 1.594126969 1.622353194 1.652637e+00 1.679114333 1.703729e+00
## 766 2.120775208 2.166905033 2.211662e+00 2.255087882 2.294412e+00
## 767 0.667229211 0.689039534 7.103011e-01 0.729310042 7.474915e-01
## 768 1.083947906 1.126710891 1.165197e+00 1.199590106 1.228576e+00
## 769 0.739119924 0.775352784 8.085312e-01 0.836659209 8.569808e-01
## 770 1.322765542 1.360746717 1.398856e+00 1.436375909 1.468229e+00
## 771 2.318650623 2.343905674 2.368281e+00 2.392338444 2.414880e+00
## 772 1.098486601 1.139842407 1.182943e+00 1.225761822 1.254013e+00
## 773 2.631904519 2.677158659 2.707976e+00 2.726829345 2.738859e+00
## 774 2.188405011 2.211513967 2.234114e+00 2.256341076 2.274654e+00
## 20 21 22 23 24
## 0 0.844886289 0.875868546 0.910299988 0.9421926836 0.969737388
## 1 0.235902280 0.251430276 0.291735314 0.3380588999 0.377982792
## 2 -0.371697277 -0.340317399 -0.303188522 -0.2707885761 -0.248119023
## 3 -0.231972278 -0.215154442 -0.195033717 -0.1771665556 -0.164199553
## 4 1.436962574 1.460883061 1.490356971 1.5180941002 1.542344125
## 5 1.243308334 1.264126488 1.293409095 1.3231281518 1.346922362
## 6 1.422233356 1.447303648 1.493346755 1.5565443568 1.626182877
## 7 1.488313436 1.529976805 1.571895673 1.6030547352 1.617150583
## 8 0.247185980 0.273758536 0.299132179 0.3139614539 0.334625542
## 9 1.555723958 1.591786441 1.632384429 1.6670478267 1.688562086
## 10 0.855233862 0.890426605 0.919772294 0.9442605203 0.962930535
## 11 2.406580586 2.432842262 2.455429478 2.4709812110 2.481847656
## 12 -0.497422371 -0.507051097 -0.492298482 -0.4771999995 -0.467310147
## 13 0.291350032 0.302972811 0.319047484 0.3361484089 0.349850337
## 14 -0.065907031 -0.049007282 -0.022053590 0.0054108447 0.028795063
## 15 0.777720428 0.794916284 0.813253205 0.8294127215 0.842003453
## 16 -0.787418034 -0.762294031 -0.729056153 -0.6995466815 -0.679605307
## 17 0.223470915 0.240942664 0.260855315 0.2800986015 0.295009287
## 18 0.589046609 0.607012258 0.642564971 0.6782581107 0.707109965
## 19 1.312031193 1.341601212 1.383889064 1.4209686674 1.444086955
## 20 1.509342471 1.537656883 1.592602551 1.6589601290 1.717518767
## 21 1.785097406 1.800440425 1.821183613 1.8385816954 1.850439208
## 22 2.581833267 2.614629254 2.654972576 2.6906464962 2.719166001
## 23 0.768241507 0.787562254 0.809176403 0.8369901226 0.863451350
## 24 1.702213499 1.725555337 1.759423710 1.8021453309 1.844245350
## 25 -0.243515450 -0.216761613 -0.190646726 -0.1752205803 -0.165312713
## 26 1.555709741 1.570529540 1.606779676 1.6487398475 1.681628356
## 27 1.296613312 1.313236859 1.340669767 1.3655773142 1.386254512
## 28 1.518534487 1.543293549 1.607083635 1.6806288845 1.735275914
## 29 0.213462650 0.236609872 0.262766294 0.2826606522 0.299633709
## 30 2.316466949 2.338823649 2.358085169 2.3752267969 2.390741658
## 31 1.424569867 1.446335694 1.478966132 1.5136135095 1.541287289
## 32 -0.308423670 -0.285854001 -0.261181141 -0.2401824146 -0.226230405
## 33 2.251621246 2.280686321 2.312033037 2.3389309751 2.360000236
## 34 0.120347302 0.133053013 0.159250417 0.1883539844 0.210899797
## 35 1.793940486 1.854479159 1.919431366 1.9653170714 1.998325043
## 36 -0.275010549 -0.239045171 -0.195062836 -0.1481438168 -0.111726972
## 37 1.323690990 1.348376493 1.375928498 1.4015387355 1.419521169
## 38 0.674012268 0.692980519 0.715239612 0.7382879443 0.757275938
## 39 0.560836157 0.576974902 0.597677717 0.6173590501 0.632431698
## 40 3.108637302 3.133623394 3.186196037 3.2463151222 3.278906321
## 41 1.416074722 1.432924554 1.480828070 1.5305256237 1.566541010
## 42 -1.930700681 -1.909471683 -1.885915954 -1.8644940991 -1.847124879

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## 43	1.735942040	1.777681666	1.897169069	1.9999120385	2.040817813
## 44	2.505572580	2.538957383	2.580525681	2.6129068104	2.617920506
## 45	1.867842354	1.882095799	1.901376258	1.9188951861	1.935663910
## 46	2.206347506	2.237674768	2.267240562	2.2969698500	2.323126043
## 47	1.054304251	1.075054880	1.097979619	1.1162050862	1.129296695
## 48	2.203932391	2.177218911	2.152865589	2.1914923135	2.227813731
## 49	1.733180091	1.759015910	1.797734923	1.8344033447	1.865183647
## 50	1.356881225	1.386923007	1.418569896	1.4383962762	1.451408068
## 51	1.187997774	1.212230714	1.238896745	1.2605177277	1.275417662
## 52	1.542186120	1.572186970	1.606360399	1.6376099406	1.661017259
## 53	1.913850430	1.931350765	1.975629616	2.0225876424	2.058567497
## 54	0.424327429	0.431414996	0.460986811	0.4806092834	0.495259623
## 55	0.305477652	0.332270513	0.388771844	0.4214218372	0.446198665
## 56	-1.328359889	-1.309207769	-1.289869013	-1.2735004763	-1.261021318
## 57	0.635849595	0.673067403	0.718990300	0.7598588293	0.788698798
## 58	0.382603504	0.404515315	0.441061490	0.4744713746	0.496715397
## 59	1.892367917	1.920576285	1.956693705	1.9885864680	2.015453231
## 60	-0.649267295	-0.650006807	-0.637860374	-0.6155236771	-0.598967085
## 61	1.960779753	1.973125559	1.991475528	2.0126624554	2.026627712
## 62	1.589069170	1.606623644	1.642776648	1.6704531213	1.684936015
## 63	0.624704344	0.655248060	0.705504176	0.7600995786	0.797959745
## 64	0.471214947	0.486960726	0.518770934	0.5438387896	0.563373717
## 65	-0.253690663	-0.229874343	-0.162505594	-0.0958057598	-0.060714912
## 66	0.025916568	0.046694300	0.066887657	0.0821624325	0.091787364
## 67	1.666621047	1.692268919	1.720964323	1.7484532243	1.771897591
## 68	0.527403540	0.565558872	0.611128861	0.6519833560	0.682284525
## 69	1.339900737	1.364100871	1.392943692	1.4181781715	1.436633154
## 70	2.143897763	2.171247512	2.235817833	2.3015171927	2.351591006
## 71	0.090167044	0.124050899	0.190465381	0.2650660689	0.326022174
## 72	2.428042015	2.451231354	2.502792125	2.5399865636	2.577312101
## 73	0.713722776	0.741243362	0.772832598	0.8002455638	0.817738327
## 74	2.133425001	2.191018148	2.241454556	2.2734518348	2.308116428
## 75	0.371230120	0.392607841	0.422864418	0.4518175187	0.470662403
## 76	1.403127943	1.429522679	1.457497341	1.4796979538	1.496143188
## 77	0.750686766	0.786225099	0.828185955	0.8670094500	0.900492895
## 78	0.890298105	0.914516528	0.942094525	0.9712802624	0.994638858
## 79	0.751513303	0.761390828	0.772462399	0.7822554319	0.788193246
## 80	0.339729001	0.360809650	0.401563421	0.4419575788	0.465191607
## 81	2.125488717	2.147102138	2.170462875	2.1885321236	2.202491455
## 82	0.103321356	0.126517180	0.183425140	0.2443618596	0.265153634
## 83	-0.731196877	-0.715623246	-0.684005111	-0.6478008214	-0.616353174
## 84	2.127151159	2.147050557	2.181985383	2.2237917119	2.263068964
## 85	1.207448680	1.226420333	1.256031983	1.2829746973	1.305520552
## 86	1.541481188	1.561653585	1.585398886	1.6101258310	1.631728229
## 87	-0.483374320	-0.506798657	-0.479211411	-0.4530912032	-0.431932183
## 88	0.078802241	0.095147611	0.117974618	0.1420749618	0.163567788
## 89	0.056435717	0.093542693	0.130157820	0.1619763777	0.190157133
## 90	1.824171304	1.845285141	1.871990261	1.8990050138	1.919594583
## 91	0.880400872	0.902463095	0.933592524	0.9617328436	0.981314521
## 92	2.288880601	2.304007691	2.332802960	2.3587130853	2.381805877
## 93	-0.587008051	-0.576378541	-0.562212851	-0.5465402938	-0.535726871
## 94	-0.866527390	-0.840293595	-0.791072240	-0.7611356259	-0.737466001
## 95	0.760538656	0.782287783	0.875847506	0.9432294281	0.987551384
## 96	1.250369490	1.265126976	1.282939000	1.2992091297	1.311093981

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## 97  2.343577188  2.369284505  2.395183121  2.4113339239  2.422334799
## 98 -0.277495722 -0.240723889 -0.198834890 -0.1635295830 -0.139221142
## 99  0.989716487  1.022772450  1.062971896  1.0977568507  1.122690012
## 100 0.369649081  0.397808847  0.427072367  0.4509819501  0.471381092
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## 104 0.967651535  0.981936826  1.018566024  1.0600050886  1.094998680
## 105 0.702809318  0.709891167  0.758836969  0.8287461656  0.894782429
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## 216 2.967063972 2.980331157 2.995416817 3.0078608064 3.017338561
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## 579 2.066486773 2.089143122 2.119986131 2.1509153068 2.174440530
## 580 0.600246741 0.630465720 0.663749121 0.6958639518 0.718609071
## 581 0.954988619 0.970532535 0.988865220 1.0017250144 1.012465752
## 582 1.189698712 1.217534453 1.242775138 1.2630726829 1.279494941

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## 583 0.933888010 0.956723170 0.983687215 1.0149738260 1.040584577
## 584 0.340821754 0.355615496 0.370470328 0.3821533235 0.391507033
## 585 1.049576479 1.062161087 1.076962691 1.0871369547 1.095529163
## 586 2.126112482 2.138787329 2.151489156 2.1627309339 2.170852377
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## 588 2.437191295 2.449487164 2.462095465 2.4730775264 2.480589919
## 589 1.556136377 1.574710059 1.595975113 1.6123209587 1.622985564
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## 591 1.458735793 1.491258910 1.524024643 1.5587735206 1.586172292
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## 619 1.226286448 1.247742742 1.273196682 1.2970725808 1.310695357
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## 626 0.632229005 0.645077239 0.659983594 0.6733831313 0.682085762
## 627 0.366620940 0.385409627 0.409736639 0.4311978870 0.447114646
## 628 1.966298653 1.978944929 1.993888328 2.0045148195 2.013463199
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## 630 3.248495403 3.257481616 3.267911308 3.2768052552 3.281305220
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## 634 -1.149283724 -1.141332718 -1.132095778 -1.1240839712 -1.119653102
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## 638  0.375829041  0.402834994  0.431564554  0.4555379354  0.471792629
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## 697	0.536395588	0.560907360	0.589984518	0.6173167798	0.640042152
## 698	1.142081339	1.161733947	1.184045425	1.2021179843	1.215300644
## 699	1.044389813	1.070769911	1.097220181	1.1182783597	1.134279911
## 700	0.598563895	0.615931464	0.632890278	0.6475122690	0.659911130
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## 705	2.197802966	2.207571494	2.218844184	2.2288450970	2.236935221
## 706	0.135467407	0.153179932	0.173288372	0.1900409354	0.205382028
## 707	1.829413006	1.842325024	1.856944029	1.8693414492	1.878426742
## 708	3.826691557	3.859899564	3.892408635	3.9183638628	3.935570627
## 709	-0.139670931	-0.122254211	-0.104216868	-0.0880596717	-0.075752222
## 710	-0.683761417	-0.671853614	-0.655730392	-0.6338751688	-0.618727909
## 711	0.178145396	0.211181697	0.243776846	0.2708832875	0.292837108
## 712	0.573944764	0.589568491	0.608379291	0.6235357916	0.637187008
## 713	0.996983390	1.028581773	1.065007560	1.0981774523	1.123112492
## 714	1.482811320	1.500371771	1.518671042	1.5323735196	1.541811122
## 715	1.313804481	1.330602502	1.349607833	1.3656018110	1.376156877
## 716	1.965207177	1.991268766	2.019583412	2.0437621566	2.060693787
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## 718	-0.282546277	-0.273730161	-0.263898553	-0.2550920520	-0.249455380
## 719	0.234899929	0.251942418	0.268092613	0.2818156785	0.290876700
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## 724	0.133647189	0.139142663	0.145190833	0.1506784430	0.154377236
## 725	0.567281769	0.577317645	0.598761173	0.6221998030	0.638496864
## 726	1.626152988	1.630854380	1.635707062	1.6407300721	1.645744434
## 727	1.084176615	1.111050959	1.141396376	1.1675644089	1.186407298
## 728	-1.121431382	-1.085572176	-1.027099305	-0.9843412778	-0.950192635
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## 730	0.190059853	0.204114601	0.220191440	0.2338399343	0.244509205
## 731	-0.061891006	-0.024929822	0.010829629	0.0385047081	0.058336423
## 732	0.315577726	0.328946460	0.343713153	0.3547227807	0.362603311
## 733	2.200724194	2.217779848	2.236894300	2.2539982434	2.268252020
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## 736	1.134849458	1.159224839	1.180438433	1.1964751907	1.207913311
## 737	1.877368793	1.889956475	1.904624304	1.9174773524	1.924944671
## 738	0.227223986	0.238780979	0.252655481	0.2636345238	0.273435034
## 739	0.800877662	0.818631747	0.839314399	0.8583267331	0.874296967
## 740	0.521374691	0.525671664	0.529827164	0.5341285219	0.538422474
## 741	0.976002848	0.990559872	1.008035386	1.0218608838	1.034200925
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## 743	2.279199894	2.290462404	2.303017369	2.3128530751	2.320089043
## 744	2.701699949	2.712299716	2.723837151	2.7338569051	2.739432812

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## 745 2.255042940 2.266570155 2.279572097 2.2907743284 2.296762993
## 746 0.570410881 0.599209487 0.635900255 0.6694613728 0.693909655
## 747 1.261242790 1.270274257 1.281031414 1.2891152384 1.296139181
## 748 2.525726715 2.544125386 2.565249659 2.5830350111 2.599097032
## 749 0.670679882 0.710095534 0.754461905 0.7918770570 0.819579264
## 750 0.935588302 0.947944701 0.962724043 0.9791626356 0.995388062
## 751 0.074461870 0.097809762 0.121732457 0.1425314208 0.156731058
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## 753 1.306720700 1.331718718 1.364734906 1.3954297036 1.419731986
## 754 -0.138595117 -0.113393719 -0.086006659 -0.0649041673 -0.045716604
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## 758 0.634831479 0.655079716 0.675322989 0.6927384609 0.704454011
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## 765 1.726760819 1.736450541 1.747242728 1.7567803970 1.762541163
## 766 2.314438996 2.338358467 2.362738466 2.3845415003 2.404293687
## 767 0.754930183 0.763834395 0.774182455 0.7806563320 0.785666326
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## 769 0.869476600 0.877928407 0.886447907 0.9000386611 0.911985099
## 770 1.498020593 1.511416417 1.526533178 1.5397125692 1.547187152
## 771 2.436156994 2.448275176 2.461658130 2.4726785455 2.480148331
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## 773 2.750248261 2.766946877 2.792926146 2.8210537906 2.841891266
## 774 2.292781594 2.308511958 2.326219169 2.3389199323 2.346749463
##          25      26      27      28      29
## 0   0.984362399 0.987411478 0.9793863224 0.9651653696 0.945744212
## 1   0.401366500 0.404547978 0.3997732101 0.3852814814 0.366692911
## 2   -0.240856524 -0.240851551 -0.2456247306 -0.2564603871 -0.271560854
## 3   -0.156256642 -0.155023801 -0.1652440698 -0.2081788920 -0.262318419
## 4   1.558736333 1.564490786 1.5659043443 1.5673268695 1.568763431
## 5   1.361215600 1.362050240 1.3561262634 1.3420639182 1.322215321
## 6   1.675197504 1.683583743 1.6817104544 1.6760254021 1.664311346
## 7   1.624845079 1.626990941 1.6189643429 1.6068736706 1.591507685
## 8   0.355431538 0.356699301 0.3495311643 0.3343702477 0.311898681
## 9   1.697983556 1.697466205 1.6895559537 1.6771686192 1.649118540
## 10  0.971788581 0.972610598 0.9492241016 0.9244320682 0.865752343
## 11  2.488732985 2.486151839 2.4739287094 2.4615299743 2.440544735
## 12  -0.462799760 -0.462821165 -0.4715292211 -0.4876901794 -0.514730729
## 13  0.358679379 0.361142917 0.3549603001 0.3428415334 0.324521498
## 14  0.047263844 0.055454279 0.0462929080 0.0291165557 0.007464261
## 15  0.846463815 0.844868565 0.8364101006 0.8209485044 0.799820997
## 16  -0.669526987 -0.667550926 -0.6746839115 -0.6848568327 -0.700958638
## 17  0.302210756 0.304373230 0.2924088726 0.2716203746 0.244661372
## 18  0.727010884 0.733402399 0.7218350774 0.6991995447 0.673470515
## 19  1.468999362 1.470533002 1.4644834808 1.4519109160 1.430703094
## 20  1.742162152 1.746360894 1.7369478942 1.7208855518 1.698808750
## 21  1.856157575 1.856625572 1.8500446608 1.8347324403 1.813028474
## 22  2.734235941 2.738155027 2.7277694115 2.7072949305 2.678947919

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## 25 -0.158686928 -0.157515652 -0.1642286302 -0.1829412110 -0.202019052
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## 40  3.298350457  3.304755178  3.2921910029  3.2658946876  3.233216162
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## 99  1.132149141  1.129892838  1.1178014322  1.0897315269  1.048834540
## 100 0.482978575  0.488217338  0.4787922094  0.4528526906  0.416526838
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## 135 1.234082072 1.234866057 1.2219910415 1.2051939514 1.181913067
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## 137 0.584272212 0.583331247 0.5770712885 0.5675901837 0.548073505
## 138 0.759679669 0.760868435 0.7534062341 0.7408184780 0.721465867
## 139 1.946365404 1.946839234 1.9389387362 1.9267462738 1.908420416
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## 144 0.845786798 0.846949193 0.8386514976 0.8263079613 0.808277781
## 145 -1.046729244 -1.048743508 -1.0600196357 -1.0801288778 -1.105301705
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## 195 0.314081861 0.319959938 0.3152601854 0.3032308444 0.287244071
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## 665 0.844815507 0.850881506 0.8419466068 0.8305045126 0.817175504
## 666 -0.364353091 -0.363891028 -0.3739477699 -0.3842165699 -0.400721235
## 667 1.232728277 1.233616290 1.2248147739 1.2120729309 1.198314534
## 668 0.852055342 0.852759109 0.8431103912 0.8332341978 0.816768741
## 669 0.265967575 0.268805199 0.2674322663 0.2582581316 0.243090227
## 670 0.857934081 0.861672089 0.8603840405 0.8498998254 0.832911388

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## 671 1.960560755 1.963817598 1.9581818401 1.9475907917 1.930864123
## 672 2.245715934 2.247282050 2.2414743761 2.2299805514 2.211089865
## 673 1.363806392 1.365924938 1.3592167958 1.3493576252 1.334391105
## 674 0.304070952 0.305822951 0.2954925830 0.2792256687 0.258869917
## 675 0.431167720 0.433319038 0.4283637870 0.4149276845 0.398595538
## 676 -0.314272480 -0.314290775 -0.3191550281 -0.3298654893 -0.345444582
## 677 0.377953672 0.377813427 0.3730222522 0.3613504317 0.350504379
## 678 1.523164997 1.530613941 1.5243814710 1.5139993360 1.496942100
## 679 -0.632555017 -0.630517275 -0.6339236389 -0.6437216999 -0.658712446
## 680 -0.244070586 -0.241280972 -0.2486035497 -0.2610816047 -0.282116753
## 681 1.491680677 1.491864425 1.4799717936 1.4630197691 1.446322805
## 682 1.179618909 1.179705827 1.1747251715 1.1625260217 1.145581165
## 683 0.009067054 0.010509663 -0.0010813139 -0.0200352860 -0.049063158
## 684 0.947210712 0.947608491 0.9423926098 0.9288668349 0.909296653
## 685 1.249293928 1.250490429 1.2432483736 1.2336245240 1.220188710
## 686 1.568825713 1.570980108 1.5682531225 1.5597335242 1.547566848
## 687 0.267223216 0.268137714 0.2608432367 0.2492230461 0.228655733
## 688 1.509118850 1.511734494 1.5111891975 1.5046465549 1.493433115
## 689 0.696410034 0.698297803 0.6959000855 0.6870969044 0.673982040
## 690 -0.168397730 -0.165822453 -0.1724233189 -0.1826834979 -0.198923957
## 691 0.455361613 0.454530529 0.4496413170 0.4384319925 0.423027103
## 692 1.909123589 1.909391019 1.8997662170 1.8908305975 1.877929241
## 693 0.631485766 0.634089209 0.6254037493 0.6095482204 0.586308914
## 694 1.508450065 1.508796457 1.5061208411 1.4996419113 1.485514106
## 695 0.622070691 0.624254199 0.6236772929 0.6161378963 0.604240988
## 696 0.405648433 0.406565917 0.3982613999 0.3897560414 0.376576648
## 697 0.653713738 0.659998200 0.6540261600 0.6443686625 0.628814705
## 698 1.222223929 1.221902547 1.2170101752 1.2062222379 1.191661605
## 699 1.142980083 1.143518929 1.1345134912 1.1204651292 1.103707423
## 700 0.666478963 0.666169114 0.6567918737 0.6442000961 0.630679563
## 701 1.809209820 1.808078998 1.8030020628 1.7920640862 1.777616805
## 702 2.312657302 2.315398560 2.3086066706 2.2974615928 2.279035105
## 703 -0.897544355 -0.891945497 -0.8972060491 -0.9065279371 -0.922562263
## 704 2.363659219 2.367539461 2.3659913995 2.3564569215 2.341807072
## 705 2.242455331 2.243894793 2.2370302185 2.2271517604 2.212277837
## 706 0.218082637 0.223244485 0.2185668951 0.2092534802 0.195908720
## 707 1.882778267 1.880940923 1.8716964915 1.8572970089 1.839990790
## 708 3.943351938 3.944821221 3.9384786089 3.9274464687 3.910564330
## 709 -0.068072714 -0.064700891 -0.0701809062 -0.0796290328 -0.095693278
## 710 -0.608633970 -0.608171211 -0.6130945737 -0.6236188404 -0.635316091
## 711 0.303908248 0.306352970 0.3003302529 0.2893798623 0.273634606
## 712 0.647692769 0.654067146 0.6493663390 0.6383405827 0.617603471
## 713 1.137730300 1.138159194 1.1333709593 1.1216579498 1.105371626
## 714 1.546481381 1.545755166 1.5417786507 1.5327384379 1.519094144
## 715 1.382207019 1.382390514 1.3760532039 1.3638007493 1.346633413
## 716 2.069717938 2.072381426 2.0642290048 2.0515781234 2.031481482
## 717 0.355676712 0.357665194 0.3520991389 0.3399088674 0.322000740
## 718 -0.244231099 -0.241304229 -0.2473308594 -0.2564242225 -0.270593973
## 719 0.297697359 0.298492014 0.2913455352 0.2776933754 0.259041092
## 720 0.834465970 0.834854887 0.8309887774 0.8223934976 0.810361855
## 721 -0.783072486 -0.782854531 -0.7859931272 -0.7954919245 -0.809605452
## 722 -0.316472069 -0.315708331 -0.3241400333 -0.3392437113 -0.359048902
## 723 0.041883205 0.044241477 0.0356005836 0.0194140738 -0.004881233
## 724 0.157838711 0.158515479 0.1511621573 0.1404541774 0.124213689

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## 725 0.647862121 0.647832555 0.6442232422 0.6355784708 0.623536186
## 726 1.650713325 1.656628130 1.6519293783 1.6393884987 1.622712131
## 727 1.196951527 1.201230607 1.1962892603 1.1863597659 1.172770780
## 728 -0.921085295 -0.907558674 -0.9118045089 -0.9188215426 -0.930185687
## 729 0.651551398 0.653716691 0.6467107889 0.6366314133 0.626332133
## 730 0.251324342 0.252598803 0.2499222749 0.2409455877 0.226750445
## 731 0.070576727 0.072097671 0.0664653520 0.0555819682 0.041258305
## 732 0.366862342 0.368007449 0.3628602545 0.3551809419 0.343617631
## 733 2.278876873 2.280457356 2.2779472373 2.2711176571 2.260617189
## 734 2.430662964 2.434062910 2.4305842552 2.4188090092 2.404099173
## 735 1.273073020 1.276389146 1.2706301459 1.2621371523 1.250724572
## 736 1.214652693 1.216125635 1.2124362858 1.2067136946 1.197565059
## 737 1.931730025 1.931337305 1.9269382542 1.9155013127 1.899738176
## 738 0.280630898 0.284400315 0.2767545329 0.2688764054 0.250163939
## 739 0.884915442 0.887515123 0.8855495482 0.8773043276 0.864001893
## 740 0.542677489 0.541215027 0.5361487241 0.5227331915 0.504131537
## 741 1.043766404 1.049688712 1.0416029022 1.0292109099 1.010043403
## 742 1.174949170 1.179818047 1.1711126519 1.1587100824 1.143419766
## 743 2.324171333 2.324081282 2.3186534233 2.3113031811 2.300727202
## 744 2.744451215 2.745131647 2.7394592611 2.7275780690 2.710972817
## 745 2.302102494 2.300769141 2.2947793304 2.2817219241 2.264336281
## 746 0.705882227 0.707075891 0.7007510001 0.6891818256 0.674470171
## 747 1.301368168 1.301544167 1.2913755890 1.2748424515 1.250473759
## 748 2.610445952 2.613368955 2.6064800634 2.5969441054 2.583139924
## 749 0.833933164 0.834492868 0.8220909432 0.8028381482 0.781655854
## 750 1.003826619 1.006445413 0.9992555031 0.9887123812 0.972749797
## 751 0.164306727 0.167189776 0.1599506987 0.1493591046 0.133453295
## 752 0.837072864 0.839304587 0.8309075590 0.8170379487 0.801856001
## 753 1.434862230 1.442027427 1.4370339611 1.4240375015 1.404107021
## 754 -0.034838012 -0.032304230 -0.0367910705 -0.0467378540 -0.060614247
## 755 0.923839455 0.922274876 0.9107459672 0.8858214373 0.853143960
## 756 2.277904189 2.277094795 2.2723878468 2.2608849613 2.245067625
## 757 1.881334876 1.879250733 1.8737076474 1.8619927315 1.846355452
## 758 0.710240943 0.711810218 0.7028534025 0.6895857790 0.669294114
## 759 0.220990400 0.223752608 0.2218192667 0.2158400669 0.203461592
## 760 0.860575073 0.861072132 0.8557322888 0.8446656479 0.829237095
## 761 -0.046457151 -0.040375333 -0.0528309008 -0.0671131763 -0.082700311
## 762 1.190038124 1.194426965 1.1866535112 1.1743342132 1.154697440
## 763 1.197013530 1.197872961 1.1905015009 1.1772843782 1.158680178
## 764 -0.151439168 -0.150092632 -0.1542405611 -0.1651931936 -0.181565118
## 765 1.767819034 1.768349528 1.7625126428 1.7494811911 1.732076238
## 766 2.415272529 2.416052660 2.4075394759 2.3994743765 2.375961265
## 767 0.792463991 0.796103460 0.7919222166 0.7856654877 0.776048066
## 768 1.368414621 1.373570418 1.3683901128 1.3560876450 1.340530260
## 769 0.919962937 0.923260617 0.9180219787 0.9086925625 0.892592955
## 770 1.553943227 1.553853080 1.5465655511 1.5252097971 1.496884859
## 771 2.483648284 2.482075216 2.4762942752 2.4635738172 2.443434431
## 772 1.349901458 1.353050818 1.3512882661 1.3407060950 1.323839802
## 773 2.849240942 2.850795626 2.8425808357 2.8303628578 2.811538540
## 774 2.349780819 2.348047774 2.3423727166 2.3292997206 2.312322398
##          30           31           32           33           34
## 0    0.924996760 0.9039779977 0.88189537 0.8470495490 0.815196101
## 1    0.346023043 0.3268554145 0.30543972 0.2791239697 0.250861138
## 2   -0.288821425 -0.3064103588 -0.32625537 -0.3648202187 -0.396865136

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## 3 -0.302306670 -0.2359458576 -0.23294374 -0.2690663352 -0.305727577
## 4 1.570094678 1.5693559782 1.56723986 1.5651080564 1.563170932
## 5 1.299454105 1.2766750619 1.25117954 1.2051649971 1.215624328
## 6 1.651844144 1.6354817675 1.61605076 1.5927191360 1.561504965
## 7 1.572219882 1.5497855936 1.52143523 1.4887482439 1.458058928
## 8 0.287430440 0.2601070174 0.22811259 0.1922857479 0.158446813
## 9 1.617621641 1.5860760151 1.55309245 1.5236780367 1.493829106
## 10 0.809467235 0.8695304072 0.86931187 0.8347079236 0.798210953
## 11 2.405118754 2.3501642229 2.27482294 2.1973395539 2.141147180
## 12 -0.544783775 -0.5706535921 -0.59514065 -0.6270844500 -0.666696226
## 13 0.303618159 0.2816975529 0.25897451 0.2208279618 0.207853018
## 14 -0.014860746 -0.0393246533 -0.06743925 -0.0982312996 -0.126751713
## 15 0.778555148 0.7582859754 0.73705282 0.7108262998 0.684102738
## 16 -0.722718798 -0.7466523252 -0.77302406 -0.7969174924 -0.811274881
## 17 0.218342487 0.1990173975 0.17790363 0.1449205645 0.112285303
## 18 0.655356637 0.6407723763 0.61669740 0.5957131400 0.583138700
## 19 1.405239586 1.3784962354 1.34757551 1.3137619039 1.278660923
## 20 1.676764340 1.6573915411 1.63310391 1.6022541050 1.577404987
## 21 1.793351458 1.7719809074 1.73864613 1.6940407008 1.656106132
## 22 2.643266997 2.6083409857 2.57121697 2.5338393645 2.491431098
## 23 0.832055069 0.8066089269 0.77421305 0.7291375216 0.684122046
## 24 1.800048305 1.7760558309 1.73659389 1.6956663054 1.657468438
## 25 -0.216885020 -0.2340358886 -0.25429757 -0.2866978841 -0.329910378
## 26 1.620244478 1.5919209750 1.55927702 1.5240484292 1.489599423
## 27 1.303898718 1.2832459566 1.25435940 1.2233188479 1.183261306
## 28 1.687571096 1.6660795989 1.63440370 1.5981891673 1.563006761
## 29 0.248023651 0.2245197651 0.19811287 0.1592858513 0.126851570
## 30 2.355799437 2.3467077716 2.32752927 2.3007224597 2.269137047
## 31 1.498244159 1.4782734205 1.45504477 1.4264350343 1.390684420
## 32 -0.271226780 -0.2903523644 -0.30965566 -0.3399551485 -0.377959901
## 33 2.287341867 2.2502205097 2.21143244 2.1733584029 2.204542786
## 34 0.165418058 0.1471729918 0.12666096 0.0857579417 0.055356144
## 35 1.961706060 1.9384522857 1.90988078 1.8760067877 1.835056948
## 36 -0.237798931 -0.2557068784 -0.28481304 -0.3252932576 -0.362036042
## 37 1.373358125 1.3750656181 1.35186004 1.3148129410 1.270261787
## 38 0.717883484 0.6982364035 0.67723030 0.6331183441 0.598157371
## 39 0.570343199 0.5738155943 0.55325113 0.5209251000 0.494232484
## 40 3.208286996 3.2257205733 3.21607486 3.1857476016 3.151912840
## 41 1.462288170 1.4367011624 1.43676758 1.4069841736 1.370578071
## 42 -1.949958220 -1.9121497093 -1.91519277 -1.9496867342 -1.981214834
## 43 1.919871775 1.9772423305 1.97664511 1.9394696581 1.913190785
## 44 2.593486727 2.5736617224 2.54342015 2.5015514884 2.463017539
## 45 1.817297938 1.8338080622 1.81869047 1.7863847414 1.759040254
## 46 2.288280187 2.2669612919 2.24456810 2.2146749338 2.180109685
## 47 1.058730790 1.0327198568 1.00582271 0.9756421533 0.942589861
## 48 2.195323369 2.1767025963 2.15247494 2.1262826352 2.099518010
## 49 1.780042133 1.7857425143 1.77216754 1.7403946255 1.717156085
## 50 1.365548486 1.3669935957 1.34976050 1.3122293298 1.278512413
## 51 1.238892983 1.2216450546 1.19699484 1.1638847894 1.130380396
## 52 1.628547679 1.5955473583 1.55825994 1.5233895833 1.490924574
## 53 2.059676576 2.0493354231 2.03672889 2.0213396630 2.000187531
## 54 0.439935309 0.4216417749 0.39186917 0.3449704109 0.330314031
## 55 0.407863155 0.3974129770 0.37350003 0.3411659692 0.305856802
## 56 -1.304095729 -1.2847640864 -1.30902213 -1.3416110598 -1.378884858

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## 57  0.721837620  0.6958567986  0.65822501  0.6101447500  0.562602740
## 58  0.467179202  0.4513439473  0.43122861  0.3995252613  0.364367632
## 59  1.989144075  1.9673250554  1.94275145  1.9000864483  1.863133995
## 60  -0.665936734 -0.6655830760 -0.68191562 -0.7109988704 -0.737012675
## 61   1.971145467  1.9542498496  1.93529570  1.9084627657  1.876133997
## 62   1.624969304  1.6004603537  1.57319600  1.5374148509  1.506358251
## 63   0.751949279  0.7287304923  0.70133624  0.6690217735  0.630548383
## 64   0.485482415  0.5219357979  0.50750718  0.4768697672  0.443230511
## 65  -0.088030876 -0.1085930632 -0.13284883 -0.1612391720 -0.194189900
## 66  -0.081740033  0.0155417483  0.03810176  0.0002842996 -0.039641360
## 67   1.726925890  1.7245737532  1.70000868  1.6651446809  1.626779624
## 68   0.652478881  0.6348441418  0.60681086  0.5757600882  0.546346097
## 69   1.394558274  1.3724488493  1.34736528  1.3176035571  1.289799776
## 70   2.284447147  2.2825290566  2.26440774  2.2222608856  2.172677450
## 71   0.293627447  0.2666286642  0.23620232  0.1994726472  0.167980578
## 72   2.534549167  2.5102877204  2.48137067  2.4505819537  2.421317768
## 73   0.704315152  0.7289682721  0.71738935  0.6908943420  0.662511044
## 74   2.281095221  2.2579003758  2.22932968  2.1986218881  2.168325500
## 75   0.408262737  0.3824112688  0.35463590  0.3147625745  0.283437139
## 76   1.440170354  1.4203225356  1.39656180  1.3600280433  1.323905935
## 77   0.847387142  0.8187358387  0.78681843  0.7528249388  0.721108181
## 78   0.953349059  0.9404962679  0.91567556  0.8821365403  0.846791646
## 79   0.700767175  0.6682817097  0.62713264  0.5794770313  0.524107045
## 80   0.367761395  0.3155952971  0.24043247  0.1616614722  0.105587824
## 81   2.127517566  2.1015048993  2.07448948  2.0370632578  2.000600361
## 82   0.206121406  0.1794413689  0.15043698  0.1116712316  0.060541719
## 83  -0.679117082 -0.7182123358 -0.76160862 -0.8021974784 -0.848299894
## 84   2.236643283  2.2089855076  2.17840895  2.1406632101  2.106271523
## 85   1.278412760  1.2600121089  1.23628279  1.2062540857  1.174077222
## 86   1.590789528  1.5595159652  1.52021464  1.4843572708  1.476987700
## 87  -0.491780055 -0.5162832728 -0.54270501 -0.5730518229 -0.605316323
## 88   0.112286936  0.0885575689  0.06292120  0.0239395978 -0.012002869
## 89   0.126459653  0.1197978512  0.09933513  0.0630264974  0.028974870
## 90   1.740524091  1.8207801139  1.83435635  1.7974286260  1.754936678
## 91   0.943260457  0.9200736338  0.89211132  0.8559127979  0.823247614
## 92   2.311689060  2.3414752016  2.33382651  2.2967821532  2.257425371
## 93  -0.595843591 -0.6268793391 -0.66011972 -0.7006937468 -0.732625284
## 94  -0.787353970 -0.8063150000 -0.82990029 -0.8601122728 -0.893288959
## 95   0.968858600  0.9455467373  0.91844318  0.8785309471  0.842414897
## 96   1.248091036  1.2198739064  1.18614937  1.1489522676  1.112679374
## 97   2.354317036  2.3364062086  2.31245554  2.2750544107  2.234140125
## 98  -0.202120463 -0.2312441027 -0.26348236 -0.2951675156 -0.322179358
## 99   1.010924072  1.0340658520  1.01771371  0.9697501209  0.928503898
## 100  0.410324049  0.4281221957  0.41039475  0.3756334814  0.333316063
## 101  0.556247560  0.5566830023  0.53540034  0.4859857011  0.428830547
## 102  1.756465693  1.7379813878  1.71136032  1.6894883511  1.663727800
## 103 -1.563069986 -1.5804930546 -1.60451363 -1.6387945326 -1.677387742
## 104  1.047428071  1.0355656880  1.01143829  0.9786186243  0.943104701
## 105  0.873816958  0.8498956264  0.82295531  0.7938648181  0.762106151
## 106  0.865027512  0.8441692196  0.82185236  0.7886316173  0.753381403
## 107  1.213855121  1.1954529199  1.17645727  1.1543769748  1.130190953
## 108  1.779824584  1.7572171183  1.73012521  1.6973129735  1.655556996
## 109  0.487389223  0.4666556044  0.44196873  0.4127091191  0.376823363
## 110  1.221883983  1.2350782071  1.22300436  1.1939084733  1.162810805

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## 111 1.361644156 1.3361648713 1.30624285 1.2714854963 1.230407633
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## 496	0.302063466	0.2774247799	0.24638886	0.2132431725	0.180153755
## 497	0.834457112	0.8165103308	0.79066781	0.7596692920	0.722975332
## 498	-0.253305702	-0.2735021838	-0.29772970	-0.3271556378	-0.359521315
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## 500	1.146267086	1.1234579734	1.09712238	1.0652860828	1.034726266
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## 523	2.160395784	2.1381980248	2.11296280	2.0836761444	2.055876141
## 524	1.413743625	1.3891629745	1.36116177	1.3301924492	1.301202763
## 525	0.262705078	0.2406743009	0.20903697	0.1740652948	0.139626804
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## 527	0.703275539	0.6814291717	0.65301721	0.6223040288	0.590921793
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## 530	1.287879465	1.2678437510	1.24501862	1.2100277694	1.176294684
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## 544 0.488144594 0.4628277823 0.43454260 0.4017034445 0.361263973
## 545 2.124376683 2.1009082933 2.07167873 2.0358936727 1.998892321
## 546 0.773217357 0.7456501403 0.71418011 0.6758910734 0.642807299
## 547 1.311238715 1.2877175640 1.25895915 1.2259741702 1.192523901
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## 564 1.704074274 1.6834745207 1.66103346 1.6278289510 1.597336817
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## 566 0.824803167 0.8033623143 0.77371895 0.7418523000 0.712358963
## 567 0.947472952 0.9311204275 0.91174754 0.8865325443 0.858713533
## 568 2.555448224 2.5324521376 2.50491894 2.4758634928 2.447366805
## 569 1.370250355 1.3489296393 1.32197769 1.2900008781 1.258046975
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## 572 1.999573837 1.9767488840 1.94072508 1.9022319558 1.878025067
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## 581 0.964992501 0.9405434580 0.91013177 0.8720366132 0.841632115
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## 586 2.130749743 2.1112275613 2.08917486 2.0645301975 2.036923988
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## 588 2.435542053 2.4169865793 2.39157847 2.3619937802 2.328841134
## 589 1.577800812 1.5592143864 1.53134776 1.4997144353 1.464602914
## 590 1.689521557 1.6697858538 1.64418180 1.6159790757 1.588622956
## 591 1.544074760 1.5225075029 1.49741319 1.4701368606 1.437081526
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## 593 0.162569992 0.1351503473 0.10070269 0.0641098892 0.021298290
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## 595 -0.642907189 -0.6647845498 -0.69608106 -0.7261264482 -0.750094957
## 596 -0.578526202 -0.6023594493 -0.62948056 -0.6596449967 -0.690405232

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## 597 2.507635441 2.4846092404 2.45588704 2.4245806861 2.394976937
## 598 -0.052266979 -0.0716738668 -0.09255734 -0.1299950238 -0.164865224
## 599 0.553814699 0.5291730090 0.49921219 0.4584882674 0.419616684
## 600 -0.332260041 -0.3505015517 -0.37339633 -0.4004830104 -0.431845435
## 601 0.781463337 0.7556561340 0.72553234 0.6911359334 0.656181520
## 602 0.397579342 0.3777672169 0.35298210 0.3242867222 0.295251017
## 603 1.500129026 1.4818804409 1.46230215 1.4392475990 1.413832431
## 604 0.504943699 0.4893386450 0.46533858 0.4349522845 0.399034997
## 605 2.846609190 2.8208440858 2.79160101 2.7604925201 2.732861060
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## 610 1.829680151 1.8054162403 1.77842796 1.7461159930 1.714232456
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## 694 1.466321989 1.4500904572 1.42817734 1.4011855459 1.371821264
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## 701 1.761023959 1.7295902800 1.69913857 1.6700832646 1.640024577
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## 704 2.320433499 2.2985392246 2.26769537 2.2342416551 2.201982709

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## 707 1.820825603 1.8014507727 1.77879473 1.7533672528 1.727327091
## 708 3.889076430 3.8656413948 3.83690920 3.8043979808 3.772227964
## 709 -0.116926828 -0.1406009208 -0.17343832 -0.2097158883 -0.246902817
## 710 -0.653389597 -0.6720733722 -0.69474738 -0.7251435276 -0.752763790
## 711 0.256730507 0.2402738646 0.22121114 0.2012682413 0.181703652
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## 713 1.082743166 1.0597544826 1.02810106 0.9937926490 0.959353905
## 714 1.501287701 1.4811774525 1.45746349 1.4301644746 1.403479196
## 715 1.328709722 1.3068956934 1.28139354 1.2492626101 1.218086385
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## 718 -0.288636751 -0.3084548357 -0.33605039 -0.3667455212 -0.398832988
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## 734 2.389664913 2.3725727276 2.35278714 2.3292542839 2.306763690
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## 736 1.182054768 1.1637780768 1.14451984 1.1158321435 1.085270369
## 737 1.879627429 1.8595137162 1.82854935 1.7921274083 1.752777415
## 738 0.229851016 0.2059633826 0.17838737 0.1463355455 0.115897766
## 739 0.846225651 0.8213013800 0.78804904 0.7483721947 0.710074571
## 740 0.479993657 0.4557739554 0.42368860 0.3894128145 0.356936072
## 741 0.988378637 0.9659846014 0.93436026 0.9003387211 0.869026620
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## 745 2.244212455 2.2189502472 2.18801305 2.1577306130 2.131712134
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## 747 1.227074999 1.2033058804 1.17935827 1.1423058794 1.112709453
## 748 2.567050048 2.5501025767 2.52303782 2.4913005875 2.458792471
## 749 0.759366671 0.7377832670 0.71387298 0.6882635929 0.662824346
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## 751 0.115472288 0.0968670276 0.06282874 0.0267850305 -0.002794747
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## 753 1.380348160 1.3563923752 1.32968519 1.3018966949 1.276052696
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## 757 1.826246305 1.8061035276 1.76976288 1.7272428690 1.685322527
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## 759  0.190171076  0.1722878291  0.15090975  0.1243095915  0.086641329
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## 770  1.465098312  1.4732578493  1.46804842  1.4423319768  1.409932831
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## 774  2.294595004  2.2754734903  2.25307727  2.2284542679  2.202215635
##               35          36          37          38          39
## 0   0.77797479936  0.7381645640  0.6921940104  0.647384132  0.6052046227
## 1   0.2222529226  0.1931317928  0.1609725744  0.123590612  0.0870030683
## 2   -0.4254980114 -0.4558403678 -0.4909884602 -0.530823189 -0.5741374024
## 3   -0.3373768794 -0.3728740754 -0.4207943689 -0.471054733 -0.5144220586
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## 8   0.1259801186  0.0916062021  0.0563115925  0.017311270 -0.0189503913
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## 10  0.7591151016  0.7180257851  0.6770418114  0.638376132  0.5867088646
## 11  2.2046185592  2.2412333707  2.2075007746  2.166338935  2.1211447222
## 12  -0.7145368312 -0.7680859085 -0.8175465873 -0.851942128 -0.8776961502
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## 16  -0.8261073687 -0.8531392837 -0.8889841336 -0.929440517 -0.9709949628
## 17  0.0871335007  0.0539234465  0.0169957227 -0.021036403 -0.0592733598
## 18  0.5585366650  0.5242471783  0.4819977577  0.435777802  0.3895430554
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## 36  -0.3890553471 -0.4227259021 -0.4582229547 -0.496762251 -0.5359562828

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## 40  3.1159389632  3.0784689792  3.0407398592  2.990652078  2.9399099198
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## 99  0.8964578453  0.8624195946  0.8224433593  0.781691115  0.7372097825
## 100 0.2885462685  0.2425782891  0.1990615525  0.160188691  0.1170110199
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## 102 1.6326160442  1.5906527488  1.5478903384  1.515851389  1.4792560122
## 103 -1.7174632630 -1.7575862241 -1.7940931650 -1.837732029 -1.8751629621
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## 143 1.0123697245  0.9701631202  0.9256315906  0.886399325  0.8429041505
## 144 0.6295713021  0.5949178618  0.5560503155  0.518574966  0.4738617689

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## 145 -1.2484517091 -1.2834041282 -1.3313167905 -1.386811241 -1.4438713442
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## 147 2.1923287067 2.1605676713 2.1136100116 2.057726616 2.0110718901
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## 149 1.2242137361 1.1767295245 1.1260353991 1.075976767 1.0273650886
## 150 -0.8687909581 -0.8982243163 -0.9360355117 -0.950018784 -0.9878133821
## 151 2.7406304006 2.6981714102 2.6401429757 2.591822244 2.5501781833
## 152 0.7643387630 0.7310694374 0.6878123485 0.648462900 0.6067537121
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## 204 -0.7523903347 -0.7894230967 -0.8279695654 -0.865091887 -0.9015504665
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## 208 0.0750521568 0.0344881723 -0.0099018174 -0.054662261 -0.0991320851
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## 434 0.4311950722 0.3888633601 0.3417956709 0.297301776 0.2547974178
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## 436 0.1556885392 0.1212292935 0.0829725243 0.042672878 0.0008864868
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## 444 2.4652532486 2.4228883035 2.3772651875 2.334352598 2.2951940431
## 445 1.0622628087 1.0210512906 0.9759601010 0.934356542 0.8948283379
## 446 2.3735755948 2.3342642353 2.2913970963 2.251418616 2.2067710305
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## 448 -0.1321240782 -0.1593374717 -0.1917746397 -0.228591055 -0.2690522749
## 449 1.3398657436 1.3069495129 1.2700912730 1.230396584 1.1896606143
## 450 0.8443450495 0.8148551728 0.7822559778 0.745551212 0.7029378074
## 451 0.2706347070 0.2342989344 0.1969550973 0.160875529 0.1188822666
## 452 -0.7428437464 -0.7837530212 -0.8277616233 -0.871781339 -0.9133587160
## 453 1.4728358979 1.4324573148 1.3947024751 1.352734133 1.3065614845
## 454 -1.0627694528 -1.0978619862 -1.1354674937 -1.173601694 -1.2110073982
## 455 0.3199169658 0.2817667785 0.2400392067 0.198795251 0.1579058218
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## 458 -0.5256553197 -0.5605132040 -0.5957579436 -0.641178115 -0.6880142550
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## 460 1.5327509398 1.4947083046 1.4545767544 1.406770319 1.3595214439
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## 462 0.0349552355 -0.0055528640 -0.0469630763 -0.092821608 -0.1318378356
## 463 1.1709182984 1.1357065430 1.1012136473 1.052552817 0.9978243905
## 464 1.0088543991 0.9717491703 0.9293504505 0.889465449 0.8394736190
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## 471 -1.2107468084 -1.2554300598 -1.3028737151 -1.348990548 -1.3882340335
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## 474 -0.1370638701 -0.1762467462 -0.2161344570 -0.264090653 -0.3128216567
## 475  0.1703499343  0.1371120499  0.1007391706  0.062061807  0.0221495811
## 476  0.9759220305  0.9440387040  0.9113809279  0.868150962  0.8231815107
## 477  0.7978847327  0.7530192487  0.7039966781  0.654699780  0.6061455420
## 478  0.8465331158  0.8146714733  0.7771215464  0.737205302  0.6951186338
## 479 -0.2760181201 -0.3122782864 -0.3530926481 -0.393656535 -0.4337124460
## 480 -0.6628745476 -0.7008414625 -0.7408822025 -0.779943759 -0.8242199237
## 481  2.7287796625  2.6971367348  2.6508558452  2.602295427  2.5606120078
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## 531	-0.0376628309	-0.0757520879	-0.1163404366	-0.160422707	-0.2032922881
## 532	0.3809731755	0.3476388835	0.3157335650	0.276227314	0.2315994989
## 533	-0.4718212878	-0.5065521853	-0.5484819606	-0.589988188	-0.6280839247
## 534	2.8495068620	2.8128575111	2.7735923392	2.733346303	2.6913888333
## 535	0.3071699116	0.2758630803	0.2503987280	0.226596078	0.1893844479
## 536	-0.0525210594	-0.0855174873	-0.1211355196	-0.158666442	-0.1976412787
## 537	0.8439543345	0.8092776844	0.7581305920	0.714831256	0.6732168055
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## 540	0.7601394440	0.7182957713	0.6685281226	0.619868924	0.5756976448
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## 542	-1.4513204961	-1.4670660330	-1.5016019467	-1.541191231	-1.5840052349
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## 544	0.3236885983	0.2869845602	0.2454660050	0.193773862	0.1627285510
## 545	1.9596614536	1.9183737723	1.8752018555	1.832957547	1.7881139045
## 546	0.6100171440	0.5761220864	0.5415864909	0.504706829	0.4641287156
## 547	1.1520868341	1.1042843042	1.0565888562	1.012124158	0.9631775064
## 548	1.8515541712	1.8107828780	1.7697391197	1.730890964	1.6928557547
## 549	0.9187941811	0.8884873570	0.8520349229	0.805061544	0.7532655829
## 550	0.8294774799	0.7917643299	0.7518729929	0.712501888	0.6738987823
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## 558	0.7498261716	0.7144476334	0.6753127397	0.629826698	0.5859052829
## 559	0.9584231126	0.9211801890	0.8820093769	0.837245807	0.7909400231
## 560	-1.6719840187	-1.7012774303	-1.7358308966	-1.768000034	-1.7976118837
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## 564	1.5641392281	1.5279665727	1.4902503279	1.449326531	1.4071883213
## 565	0.7761803796	0.7418506580	0.7037894821	0.663947208	0.6235309656
## 566	0.6816088845	0.6468847942	0.6092704592	0.570632459	0.5316605025
## 567	0.8286612396	0.7956224014	0.7608536420	0.719320013	0.6801836264
## 568	2.4199254737	2.3868167797	2.3506836014	2.309693975	2.2684173477
## 569	1.2263240364	1.1875106946	1.1442733818	1.102001826	1.0603021089
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## 573	2.0931401019	2.0580732748	2.0203094043	1.980691709	1.9392868884
## 574	-0.8817443549	-0.9237332997	-0.9695387017	-1.010028362	-1.0519719437
## 575	1.7600335699	1.7275625792	1.6930014951	1.656688394	1.6186990372
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## 581 0.8081337629 0.7707464552 0.7350805213 0.688821676 0.6442373071
## 582 1.1211297058 1.0839673959 1.0421782545 1.003789171 0.9597671733
## 583 0.8639709611 0.8200784202 0.7728121306 0.729117790 0.6811823586
## 584 0.2218446722 0.1851990535 0.1423826095 0.100076910 0.0581995019
## 585 0.9117874613 0.8803023897 0.8463332824 0.809904269 0.7702023433
## 586 2.0045699214 1.9655801215 1.9212231111 1.876549619 1.8334470005
## 587 0.8482899412 0.8144706976 0.7784087561 0.740419812 0.7024237109
## 588 2.2991402586 2.2634230356 2.2248687534 2.184893408 2.1379893524
## 589 1.4359137216 1.4064390698 1.3731571155 1.336260017 1.2951439638
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## 598 -0.1993490115 -0.2342948064 -0.2838329482 -0.333602042 -0.3773292767
## 599 0.3828956367 0.3404778308 0.2937661916 0.253142887 0.2184172848
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## 605 2.7075818411 2.6647479832 2.6258079860 2.603593314 2.5844728738
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## 609 0.4494969738 0.4164882800 0.3788924739 0.337114839 0.2945332763
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##	694	1.3413367741	1.3061464517	1.2684769696	1.229693954	1.1903201410
##	695	0.4510427650	0.4096824546	0.3669513295	0.324657461	0.2824831830
##	696	0.2248959798	0.1938632610	0.1622484100	0.131978445	0.0879056404
##	697	0.4513110859	0.4267418898	0.4029419300	0.365213437	0.3334230741
##	698	1.0200705074	0.9780013872	0.9284138755	0.877005233	0.8288334262
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##	700	0.4672145619	0.4281750329	0.3877150196	0.348009428	0.3095124589
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## 739 0.6725461582 0.6344053111 0.5961420344 0.559565113 0.5143401262
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## 22 2.273623e+00 2.2175323622 2.155727603 2.095128631 2.039486387
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## 77 5.083823e-01 0.4527835951 0.391907218 0.335405442 0.283232979
## 78 6.036053e-01 0.5503661352 0.497347733 0.432862593 0.374076227
## 79 4.343964e-01 0.3845534320 0.328803304 0.272174328 0.212995015
## 80 -2.434004e-02 -0.0704880854 -0.113823257 -0.156598571 -0.188798320
## 81 1.715177e+00 1.6620688315 1.603267701 1.566779291 1.529587642
## 82 -1.785887e-01 -0.2362740893 -0.296956218 -0.357953219 -0.416315078
## 83 -9.409013e-01 -0.9954278707 -1.049512761 -1.100892118 -1.151038161
## 84 1.863253e+00 1.8156598919 1.760880078 1.707411319 1.658921983
## 85 9.770511e-01 0.9336321837 0.892202382 0.848465464 0.808034313
## 86 1.270961e+00 1.2248132896 1.177827989 1.126762726 1.074517569
## 87 -7.663839e-01 -0.8119818919 -0.860952485 -0.910852260 -0.959031352
## 88 -2.690516e-01 -0.3229284494 -0.382486466 -0.437765986 -0.489360566
## 89 -1.992439e-01 -0.2459754050 -0.292284512 -0.337175505 -0.385973345
## 90 1.487155e+00 1.4439335940 1.392095940 1.338660537 1.285515224
## 91 6.172860e-01 0.5693031875 0.516369989 0.461147436 0.406820507
## 92 2.017371e+00 1.9738144130 1.928199814 1.877100702 1.823630139
## 93 -9.689015e-01 -1.0187700764 -1.070860794 -1.126616710 -1.182578789
## 94 -1.131620e+00 -1.1815097469 -1.229401235 -1.280798630 -1.329266129
## 95 5.924737e-01 0.5494818491 0.507679749 0.463607869 0.405529543
## 96 8.942106e-01 0.8334607356 0.765526457 0.698651723 0.638178782
## 97 1.982280e+00 1.9403550225 1.893029231 1.836877219 1.777262755
## 98 -5.287484e-01 -0.5766092927 -0.625744830 -0.677524024 -0.733703741
## 99 6.881502e-01 0.6349390184 0.580952715 0.529050338 0.480554604
## 100 7.146464e-02 0.0353735397 -0.001732391 -0.047204879 -0.097012089
## 101 1.663880e-01 0.11114335554 0.051598214 -0.008275406 -0.064888075
## 102 1.441659e+00 1.3940902371 1.343871562 1.302333429 1.264397105
## 103 -1.917796e+00 -1.9665689995 -2.026607245 -2.096380734 -2.167801380
## 104 6.873807e-01 0.6421274153 0.597200389 0.549963372 0.503324000
## 105 5.456913e-01 0.4932015603 0.452045790 0.409513831 0.353918431
## 106 4.964890e-01 0.4522374533 0.409689796 0.358538721 0.298066545
## 107 1.049452e+00 1.0223347819 0.990712008 0.955505991 0.917772083
## 108 1.402035e+00 1.3501625878 1.297400253 1.246039202 1.187283155
## 109 1.472975e-01 0.0983758449 0.047312174 -0.002891153 -0.053990931
## 110 9.199374e-01 0.8727788148 0.820602327 0.770908064 0.725207682
## 111 1.009565e+00 0.9555611446 0.896938116 0.840391541 0.781967648
## 112 9.726667e-01 0.9091520098 0.849611430 0.788840101 0.730584475
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## 114 3.703083e-01 0.3185671339 0.266231046 0.213010718 0.161175757
## 115 1.390197e+00 1.3451076278 1.290177899 1.229874502 1.174388753
## 116 -7.201627e-02 -0.1184134685 -0.165137767 -0.214499589 -0.266771926
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## 118 3.895224e-03 -0.0395295515 -0.095390445 -0.150042407 -0.202816161
## 119 6.685951e-01 0.6177991960 0.569221804 0.521759403 0.473657229
## 120 1.829963e+00 1.7821872890 1.735403874 1.689509287 1.639257473
## 121 2.123796e+00 2.0851349368 2.049862581 2.008852037 1.965282110
## 122 9.918518e-01 0.9307920679 0.867731631 0.807910421 0.752977330
## 123 -5.611507e-01 -0.6142552931 -0.672604042 -0.736951811 -0.792484437
## 124 5.461039e-02 0.0025353375 -0.051656822 -0.108872678 -0.170343498

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## 125 -5.415444e-01 -0.5883849140 -0.632918643 -0.684098594 -0.737778821
## 126 1.512075e-01 0.1096920485 0.067463633 0.026068488 -0.017165267
## 127 5.812974e-01 0.5324691143 0.483544518 0.429942031 0.376636710
## 128 5.851268e-01 0.5329428284 0.485068560 0.432818352 0.377307896
## 129 1.259953e+00 1.2129383422 1.167747013 1.124447538 1.071297651
## 130 1.047224e+00 1.0056509350 0.958592246 0.928312414 0.894739942
## 131 1.112304e+00 1.1342042248 1.120813208 1.070968841 1.011277513
## 132 2.217528e+00 2.1707506390 2.119384908 2.064821421 2.009561908
## 133 5.177846e-01 0.4661035603 0.412029227 0.357318400 0.303130216
## 134 -1.208796e+00 -1.2454235167 -1.289007339 -1.341825224 -1.404868597
## 135 8.013689e-01 0.7719324549 0.716484685 0.655118309 0.595950354
## 136 8.694899e-01 0.8169252061 0.768862231 0.725203668 0.681335326
## 137 1.674086e-01 0.1325749575 0.087207025 0.039563408 -0.016773887
## 138 2.907154e-01 0.2447380968 0.190786488 0.135880295 0.079726561
## 139 1.558649e+00 1.5155200187 1.475419791 1.430285964 1.384811758
## 140 1.485523e+00 1.4469090415 1.402896651 1.353522874 1.299544550
## 141 1.362429e+00 1.3227352840 1.277517633 1.222259220 1.169401191
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## 143 8.047177e-01 0.7614679586 0.716806745 0.668160107 0.619545708
## 144 4.271912e-01 0.3826244985 0.337176339 0.299218206 0.247954102
## 145 -1.496833e+00 -1.5397666972 -1.571428927 -1.607509782 -1.659412063
## 146 1.504657e+00 1.4802276266 1.435107873 1.381447704 1.325315867
## 147 1.974159e+00 1.9356614466 1.896098100 1.852211333 1.801149609
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## 155 -1.412012e+00 -1.4675013721 -1.520719952 -1.570539886 -1.621307945
## 156 -8.255863e-01 -0.8763851439 -0.917058813 -0.961842891 -1.019143536
## 157 2.430681e+00 2.3965407928 2.363257579 2.328745042 2.285551411
## 158 1.528829e-01 0.0978363588 0.048330920 -0.002953488 -0.056145657
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## 162 3.016727e+00 2.9676858893 2.927106456 2.880193294 2.824457532
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## 171 6.874959e-01 0.6420474903 0.599197689 0.553343498 0.499829583
## 172 8.130657e-01 0.7690500127 0.725410691 0.686613503 0.641276613
## 173 5.534136e-01 0.5028257959 0.458996620 0.412690428 0.364639045
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## 175 2.305358e+00 2.2588107814 2.209675014 2.148298692 2.103550261
## 176 9.841984e-01 0.9387100756 0.891978309 0.841458841 0.788573420
## 177 1.288965e+00 1.2553012272 1.217420408 1.172274446 1.135509113
## 178 2.567539e-01 0.2951380601 0.281020890 0.230177903 0.185738430

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## 179 -2.417379e-01 -0.2832237488 -0.332698262 -0.385747406 -0.438498569
## 180 9.548005e-01 0.9490922244 0.944427901 0.940231998 0.949867958
## 181 -5.146896e-01 -0.5548865489 -0.594818654 -0.638710948 -0.695397941
## 182 2.625514e+00 2.5827214181 2.531443089 2.472178602 2.411255059
## 183 3.032991e-01 0.2574672550 0.205958705 0.159045241 0.117498523
## 184 -2.093968e-01 -0.2640988394 -0.318916156 -0.379957761 -0.439825188
## 185 4.890845e-01 0.4383612710 0.389084010 0.333378439 0.269332623
## 186 -6.303494e-02 -0.1147289951 -0.168477204 -0.221990744 -0.275438586
## 187 -1.611635e-01 -0.2022193210 -0.239444312 -0.269490841 -0.305753826
## 188 7.006883e-01 0.6518954026 0.591418073 0.523140973 0.452161832
## 189 9.006743e-01 0.8592784784 0.818141805 0.777461339 0.728820150
## 190 9.090592e-01 0.8651388038 0.819004268 0.768031697 0.717136062
## 191 1.675815e+00 1.6309181000 1.582582442 1.536486382 1.489329842
## 192 1.557631e+00 1.5124186125 1.463918737 1.412597388 1.349451073
## 193 8.348435e-01 0.7848655014 0.746647098 0.705575376 0.665748543
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## 196 1.201697e+00 1.1517218027 1.104975374 1.051181795 0.998051339
## 197 6.816183e-01 0.6369610851 0.588349479 0.537796171 0.487164063
## 198 4.252724e-01 0.3805117240 0.331968084 0.281945948 0.233329144
## 199 9.366952e-01 0.8899290372 0.840303848 0.790086950 0.740496772
## 200 1.295176e+00 1.2537469139 1.205917548 1.157266841 1.107435364
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## 204 -9.390424e-01 -0.9784416353 -1.019254015 -1.059385089 -1.104174154
## 205 1.795461e+00 1.7506658254 1.703140858 1.653373161 1.602247297
## 206 1.673842e+00 1.6321327470 1.587464348 1.540273746 1.492454359
## 207 -1.855406e-01 -0.2280286973 -0.280305843 -0.326419782 -0.374244302
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## 210 2.346681e-01 0.1877207350 0.143528856 0.092802301 0.043170816
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## 212 1.224115e+00 1.1745454498 1.123908960 1.072839639 1.018712518
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## 214 1.155401e+00 1.1074300685 1.059985420 1.013827248 0.968620975
## 215 1.1144490e+00 1.0485769110 0.988548892 0.932813296 0.883902678
## 216 2.625614e+00 2.5768935323 2.532394707 2.490009270 2.448702575
## 217 1.217154e-01 0.0775786753 0.030765992 -0.015106361 -0.060426486
## 218 8.100744e-01 0.7624228023 0.713961950 0.658641767 0.603575575
## 219 7.684005e-01 0.7246853022 0.679753009 0.633283999 0.584638322
## 220 1.538652e+00 1.4945223601 1.447237407 1.397096046 1.344728263
## 221 -7.727225e-01 -0.8197806241 -0.868069274 -0.919938065 -0.975091529
## 222 3.083126e+00 3.0409758601 2.994271424 2.942566356 2.887250663
## 223 4.179173e-01 0.3732115942 0.320789433 0.271017589 0.221728703
## 224 -3.219838e-01 -0.3622714503 -0.409051823 -0.453119022 -0.495618158
## 225 1.601418e-01 0.1111643299 0.060544615 0.014131536 -0.034301972
## 226 8.422577e-01 0.7977306989 0.752034578 0.697793902 0.639879231
## 227 1.822927e+00 1.7765406190 1.726885147 1.674180203 1.613505676
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## 229 -8.648051e-01 -0.9118361830 -0.956974823 -1.002229492 -1.049962850
## 230 -3.405075e-02 -0.0803042508 -0.126757630 -0.172764159 -0.217893133
## 231 1.741205e+00 1.6971501956 1.652215648 1.605756153 1.556767682
## 232 1.824562e+00 1.7807237906 1.735431852 1.688294370 1.638839637

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## 233 4.841749e-01 0.4421702408 0.393067000 0.344320596 0.296697202
## 234 -1.141628e-01 -0.1583813972 -0.207032965 -0.261430045 -0.321498879
## 235 3.016984e+00 2.9603552364 2.906067151 2.854092825 2.804177562
## 236 5.182563e-01 0.4726927919 0.426754423 0.375655968 0.322909439
## 237 8.937405e-01 0.8465479069 0.798595068 0.749867450 0.700415647
## 238 1.000219e+00 0.9548722931 0.904711730 0.852246253 0.798385657
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## 241 1.480986e+00 1.4334962295 1.381841620 1.324539392 1.262201314
## 242 -1.021002e+00 -1.0771255618 -1.128135055 -1.175810545 -1.229212154
## 243 -7.282325e-01 -0.7830153191 -0.836001193 -0.885977919 -0.939306485
## 244 6.115409e-01 0.5626818638 0.514614917 0.463710112 0.409054543
## 245 4.328307e-01 0.3823633412 0.330997468 0.281231459 0.224333911
## 246 1.189702e+00 1.1421760256 1.095311885 1.047817664 0.997612858
## 247 7.803149e-01 0.7437127214 0.707745729 0.659460833 0.607122698
## 248 5.658207e-01 0.5301515794 0.491405271 0.448102966 0.399818344
## 249 -7.456807e-01 -0.7924134719 -0.842339927 -0.896593516 -0.949620003
## 250 7.945152e-01 0.7508599064 0.703485416 0.648942110 0.598348928
## 251 5.746387e-02 0.0177045168 -0.018597485 -0.057866178 -0.103650576
## 252 3.343491e-01 0.2876086199 0.243494200 0.196652049 0.142836791
## 253 7.673370e-01 0.7223262553 0.677231967 0.623727817 0.565925114
## 254 7.241668e-01 0.6782659660 0.630212614 0.581055593 0.531424780
## 255 4.034900e-01 0.3584230974 0.318375525 0.280040173 0.236315660
## 256 1.676629e+00 1.6193570356 1.563430462 1.508418949 1.451040239
## 257 6.319261e-01 0.5824231232 0.530076341 0.492046660 0.456907363
## 258 8.457550e-01 0.8080740756 0.762016745 0.711215595 0.661870574
## 259 -6.099196e-01 -0.6578983458 -0.709233127 -0.763550822 -0.820632507
## 260 1.511877e+00 1.4676448684 1.419447820 1.367574002 1.314425642
## 261 1.675619e-01 0.1150906925 0.061301552 0.007059717 -0.055407777
## 262 -9.317393e-01 -0.9734846268 -1.023500821 -1.071609007 -1.121471640
## 263 1.717842e+00 1.6714550859 1.621473681 1.572028459 1.526117659
## 264 6.339853e-01 0.5966510457 0.550150675 0.505286932 0.461846756
## 265 2.786433e+00 2.7376797298 2.693838145 2.651943234 2.603016374
## 266 9.664751e-01 0.9238924988 0.878885618 0.831239621 0.781013443
## 267 3.253368e-05 -0.0483564841 -0.091398959 -0.131271335 -0.183281603
## 268 2.822136e+00 2.7769895521 2.730004311 2.674669586 2.621457996
## 269 1.746838e+00 1.6957983636 1.649449499 1.603916099 1.556049303
## 270 2.340330e+00 2.2953244556 2.245069330 2.190807177 2.135216952
## 271 1.576817e+00 1.5303249841 1.487153953 1.447048768 1.404557700
## 272 -8.931004e-01 -0.9341529041 -0.982913894 -1.034458821 -1.084108828
## 273 3.105459e-01 0.2566078528 0.202947939 0.147681444 0.087121594
## 274 6.069516e-01 0.5605153461 0.510495472 0.466649491 0.418465294
## 275 -6.854037e-01 -0.7326804581 -0.779622957 -0.825244246 -0.874415752
## 276 2.914089e+00 2.9051445525 2.862484044 2.805821091 2.753416392
## 277 -9.166604e-01 -0.9610729385 -1.001522496 -1.039080781 -1.078682682
## 278 4.547258e-01 0.4130343953 0.370861435 0.328129002 0.281505287
## 279 7.515340e-01 0.7109402119 0.659895051 0.609634106 0.556666584
## 280 8.140394e-01 0.7729420616 0.725977148 0.679153334 0.627142497
## 281 4.488674e-01 0.4008735999 0.347898323 0.294821409 0.240892008
## 282 -1.034729e+00 -1.1005663076 -1.158710936 -1.212165741 -1.260038507
## 283 2.376037e+00 2.3328856570 2.289204138 2.243685630 2.195083896
## 284 -3.013889e-02 -0.0713254083 -0.115676383 -0.164749773 -0.218359713
## 285 1.936058e+00 1.8881934347 1.839263714 1.790621654 1.742995664
## 286 1.237326e-01 0.0861579747 0.043046446 -0.006761506 -0.062961602

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## 287 9.947624e-01 0.9436727096 0.901967530 0.858912521 0.814587129
## 288 1.049662e+00 0.9965818483 0.944075408 0.893072733 0.835567715
## 289 1.340217e+00 1.2970219537 1.249642907 1.207240702 1.160192556
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## 291 8.237065e-01 0.7783510418 0.731930566 0.681071705 0.627813267
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## 296 7.984133e-01 0.7558224635 0.707993523 0.655837373 0.600747153
## 297 -8.001706e-01 -0.8439500444 -0.891755276 -0.943782893 -0.999313013
## 298 2.938383e+00 2.8946705701 2.849003408 2.801339760 2.752093725
## 299 4.693978e-01 0.4326513831 0.384887595 0.335767643 0.285317468
## 300 6.397211e-01 0.5969990638 0.555940066 0.512540603 0.466361352
## 301 -6.892724e-01 -0.7342106019 -0.780476919 -0.829160551 -0.879512615
## 302 1.539223e-01 0.1098528948 0.064208284 0.017454447 -0.031242656
## 303 -2.913121e-01 -0.3327871226 -0.379424408 -0.427530920 -0.484680404
## 304 -8.927331e-01 -0.9309558325 -0.986973188 -1.043771994 -1.090315481
## 305 1.125809e+00 1.0735712772 1.021972738 0.967764426 0.916649083
## 306 2.048419e+00 1.9995405721 1.951807741 1.897611833 1.842006647
## 307 4.867966e-01 0.4376267093 0.390263509 0.344209629 0.293856905
## 308 9.665992e-01 0.9198200893 0.872282217 0.820410241 0.770068481
## 309 1.392781e+00 1.3420168075 1.289944603 1.234383745 1.178165819
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## 314 2.413963e+00 2.3694847589 2.324376472 2.278272420 2.231678236
## 315 1.122132e+00 1.0719855883 1.022205760 0.973761942 0.926928144
## 316 7.556962e-01 0.7108150668 0.659586739 0.610995262 0.563231143
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## 318 1.260537e+00 1.2096025136 1.158356656 1.107550054 1.044008237
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## 322 1.087957e+00 1.0437043158 1.000257338 0.943153990 0.881198417
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## 330 -2.941240e-01 -0.3415238882 -0.391519066 -0.443532874 -0.497742142
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## 332 -1.280232e-01 -0.1822221634 -0.240392031 -0.303095372 -0.367036459
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## 334 1.444242e+00 1.4033934190 1.361901998 1.317605607 1.267402827
## 335 -4.699274e-01 -0.5221331913 -0.578805520 -0.637186157 -0.694597628
## 336 1.257240e+00 1.2137112463 1.168871974 1.120022366 1.066633054
## 337 6.071800e-01 0.5579282922 0.503645378 0.445997371 0.387331354
## 338 -1.283157e+00 -1.3347117742 -1.386314468 -1.437110581 -1.487080417
## 339 1.130033e+00 1.0915814809 1.051608297 1.009877829 0.966125703
## 340 5.636244e-01 0.5153086029 0.460062832 0.403257321 0.337552724

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## 341 2.086093e-01 0.1662695529 0.119253907 0.071211905 0.019448173
## 342 -4.573204e-01 -0.5037395579 -0.552514406 -0.602582837 -0.652561449
## 343 1.088396e+00 1.0369602620 0.991087417 0.942460292 0.887955362
## 344 5.195966e-03 -0.0393602069 -0.088620927 -0.142111109 -0.198852573
## 345 9.858734e-01 0.9476881278 0.907751248 0.863160872 0.811239846
## 346 6.183335e-01 0.5778427933 0.534223480 0.488013235 0.439395516
## 347 -6.915274e-01 -0.7297892358 -0.784167906 -0.839958140 -0.898140596
## 348 2.290119e+00 2.2470012318 2.203012439 2.154560874 2.103438019
## 349 2.147101e-01 0.1658303553 0.113356745 0.063617981 0.015739347
## 350 6.764563e-01 0.6389379732 0.595772699 0.545326415 0.488554572
## 351 9.471863e-01 0.8978588347 0.845257954 0.786115674 0.724512684
## 352 4.065179e-01 0.3566590195 0.305540212 0.254955300 0.202084293
## 353 2.223881e-01 0.1762518827 0.124268192 0.078721533 0.041503376
## 354 7.178962e-02 0.0249973523 -0.023173449 -0.074757572 -0.137434687
## 355 9.689845e-01 0.9256287217 0.879328819 0.834924965 0.788691474
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## 364 1.598493e+00 1.5513622290 1.502051439 1.454397907 1.408109862
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## 394 4.876133e-02 -0.0021966964 -0.049584610 -0.100683041 -0.149942046

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## 395 2.966321e-01 0.2500757513 0.191383360 0.116457826 0.047914412
## 396 2.430654e+00 2.3898360888 2.344247834 2.289434020 2.237021076
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## 398 1.062353e+00 1.0103642549 0.951928658 0.910936261 0.860170564
## 399 -1.039427e+00 -1.0825049493 -1.124397109 -1.173508104 -1.222809912
## 400 2.680436e-04 -0.0422309690 -0.084827287 -0.128062038 -0.172593773
## 401 1.931308e+00 1.8848191066 1.837953310 1.792060719 1.747358109
## 402 1.893627e+00 1.8435256021 1.794239581 1.746808840 1.699820350
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## 404 1.305724e+00 1.2600377374 1.213445350 1.166599100 1.119321855
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## 406 8.355840e-01 0.7894860278 0.739861190 0.687359073 0.633195645
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## 419 2.086118e-01 0.1643545385 0.122097185 0.069516277 0.009245429
## 420 2.396874e-01 0.1950365122 0.149518065 0.105810440 0.056616579
## 421 -3.205394e-02 -0.0822984764 -0.141138657 -0.202711728 -0.261674097
## 422 5.359591e-01 0.4946683710 0.447507372 0.392511847 0.339910610
## 423 1.212761e+00 1.1629813748 1.111640216 1.059947497 1.008500775
## 424 4.942402e-01 0.4445125944 0.404337391 0.361962770 0.316382937
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## 426 1.252784e+00 1.2148562849 1.173113704 1.126133945 1.074713849
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## 428 1.272938e+00 1.2359510080 1.188691836 1.130561704 1.075126759
## 429 1.148847e+00 1.0892383257 1.032756895 0.982909665 0.932002315
## 430 6.245536e-01 0.5673519700 0.511617715 0.455329870 0.399336417
## 431 -8.198146e-01 -0.8660077057 -0.915359899 -0.961611437 -1.005256144
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## 437 1.859282e+00 1.8114721275 1.760476301 1.705997096 1.648864422
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## 443 7.530186e-01 0.7184802232 0.685228677 0.649358276 0.606642962
## 444 2.252069e+00 2.2183024889 2.183273949 2.129000104 2.070665289
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## 449 1.149198e+00 1.1095043086 1.063538160 1.013705745 0.967413190
## 450 6.593558e-01 0.6134254120 0.564088496 0.511388956 0.457593750
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## 454 -1.257375e+00 -1.3047142898 -1.349382221 -1.390900896 -1.440484498
## 455 1.174912e-01 0.0688812098 0.018276653 -0.030425298 -0.081828772
## 456 2.395039e+00 2.3518533854 2.305281977 2.255610658 2.203080030
## 457 4.141918e-01 0.3714600966 0.326569618 0.280288196 0.233390029
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## 460 1.314750e+00 1.2643783365 1.214521172 1.167753537 1.122126411
## 461 3.674709e-01 0.3191837321 0.271354826 0.224236741 0.170824035
## 462 -1.648253e-01 -0.1965052688 -0.228927696 -0.264224757 -0.307794819
## 463 9.453517e-01 0.8965754667 0.850802672 0.806151015 0.759810976
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## 467 -1.470289e+00 -1.5132015236 -1.563491327 -1.615715965 -1.669516277
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## 469 5.515140e-01 0.4979062141 0.448342081 0.397280823 0.342726307
## 470 -1.337046e+00 -1.3781378070 -1.416106957 -1.452952745 -1.490925344
## 471 -1.422338e+00 -1.4566486676 -1.497360846 -1.549854546 -1.611487368
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## 474 -3.600237e-01 -0.4066186435 -0.459431176 -0.512397251 -0.560766096
## 475 -1.866230e-02 -0.0670026409 -0.117905657 -0.167708915 -0.215696186
## 476 7.788167e-01 0.7354244419 0.692726799 0.645838966 0.597628316
## 477 5.586031e-01 0.5043466140 0.453451776 0.395984973 0.337800394
## 478 6.519450e-01 0.6046154210 0.554571501 0.502397953 0.449133853
## 479 -4.741915e-01 -0.5160136125 -0.559680864 -0.605427198 -0.653580192
## 480 -8.690508e-01 -0.9126697687 -0.954138092 -0.993827388 -1.041878557
## 481 2.517806e+00 2.4662485913 2.411386871 2.359135765 2.306640428
## 482 -6.803822e-04 -0.0443648071 -0.086877254 -0.129543908 -0.173541829
## 483 2.823063e-01 0.2432986616 0.200796688 0.153958555 0.103657970
## 484 1.309716e+00 1.2641526065 1.219562803 1.165555806 1.107277223
## 485 2.091720e+00 2.0543624376 2.012303231 1.964480164 1.915072365
## 486 1.217017e+00 1.1706519593 1.127279131 1.078432470 1.025701689
## 487 2.554366e+00 2.5126883417 2.467216940 2.417122311 2.368015146
## 488 7.965951e-01 0.7514697245 0.707125298 0.660153808 0.605813802
## 489 4.854196e-01 0.4482359282 0.409594130 0.369005979 0.326856717
## 490 2.464183e+00 2.4124748745 2.358549096 2.304896050 2.251962112
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## 495 4.917407e-01 0.4388252234 0.392106888 0.340617545 0.286764375
## 496 -8.203249e-02 -0.1369230515 -0.188216700 -0.238321869 -0.286502105
## 497 4.961184e-01 0.4542574015 0.405314996 0.352194550 0.297892779
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## 503 7.542507e-01 0.7130195620 0.667238579 0.616151239 0.562979299
## 504 2.434277e-01 0.1987626642 0.154072833 0.101562819 0.044315246
## 505 5.507378e-01 0.5035116924 0.458976033 0.416721020 0.370611523
## 506 1.358190e+00 1.3088168289 1.257836305 1.204521902 1.147373152
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## 513 1.295841e-01 0.0826766295 0.034570249 -0.014443667 -0.065984224
## 514 1.318617e-01 0.0782784513 0.029384917 -0.022768735 -0.078392352
## 515 -6.866708e-01 -0.7335420565 -0.773646925 -0.813965519 -0.858169347
## 516 -4.781734e-01 -0.5215394617 -0.567127969 -0.614102983 -0.662503637
## 517 -3.928660e-01 -0.4423363912 -0.497641350 -0.552973705 -0.603819860
## 518 7.997009e-01 0.7471759757 0.697321531 0.649018775 0.601052718
## 519 -3.501103e-01 -0.3967505488 -0.443643922 -0.490433591 -0.543968230
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## 521 -9.040147e-01 -0.9553611105 -1.008895959 -1.061289468 -1.112976066
## 522 4.924950e-01 0.4430260370 0.397737224 0.352686381 0.304931813
## 523 1.811202e+00 1.7716522988 1.720109360 1.668450834 1.615881399
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## 526 -4.248998e-01 -0.4740216531 -0.530234223 -0.588103751 -0.642664870
## 527 3.576799e-01 0.3137692426 0.272474631 0.224614829 0.170114633
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## 530 9.588555e-01 0.9131006652 0.863561690 0.813545824 0.763200124
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## 532 1.968938e-01 0.1589369399 0.118109054 0.067769404 0.017826607
## 533 -6.700900e-01 -0.7114319180 -0.751862757 -0.793577475 -0.838336967
## 534 2.646612e+00 2.6013442926 2.556250474 2.505726570 2.454927327
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## 536 -2.377659e-01 -0.2808833923 -0.325909605 -0.372485091 -0.420785600
## 537 6.315252e-01 0.5937495731 0.547398305 0.498767431 0.449473468
## 538 2.391439e-01 0.1882564211 0.140586329 0.096552424 0.054824875
## 539 2.018844e+00 1.9881826186 1.958010388 1.924867121 1.886027456
## 540 5.229290e-01 0.4691264150 0.419744818 0.373869959 0.329125036
## 541 7.194926e-01 0.6780434907 0.635173218 0.583812034 0.532208293
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## 551 1.039004e+00 0.9967798180 0.948493686 0.898990971 0.848991683
## 552 1.974658e+00 1.9256396361 1.874695139 1.822626436 1.770809685
## 553 -7.431539e-01 -0.7943245273 -0.845524350 -0.896625439 -0.950384310
## 554 -3.901625e-01 -0.4304804782 -0.471748645 -0.515943974 -0.564431495
## 555 1.275266e+00 1.2316990758 1.188115821 1.144615602 1.096129640
## 556 1.789435e+00 1.7460006151 1.699195728 1.646191832 1.602404366

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## 557 4.982948e-01 0.4554100703 0.407176679 0.349907521 0.294329518
## 558 5.452638e-01 0.4985337524 0.451796796 0.412210893 0.377520248
## 559 7.438192e-01 0.6924827731 0.639032168 0.584909467 0.529983953
## 560 -1.829029e+00 -1.8654297036 -1.908540428 -1.958270114 -2.012975555
## 561 -4.335577e-02 -0.0835855692 -0.132734962 -0.185841267 -0.250179025
## 562 -2.554957e-01 -0.2992692436 -0.338275020 -0.379143840 -0.422451332
## 563 1.456878e+00 1.4012113860 1.346284745 1.293658567 1.243851300
## 564 1.363118e+00 1.3180771009 1.272528186 1.228377069 1.185512295
## 565 5.819288e-01 0.5398447766 0.490562800 0.438663332 0.388239704
## 566 4.924304e-01 0.4518173463 0.410398932 0.367877210 0.322949008
## 567 6.459966e-01 0.6141514491 0.578838074 0.532184474 0.472573169
## 568 2.227623e+00 2.1872572639 2.147149052 2.101046840 2.051956060
## 569 1.018514e+00 0.9764703172 0.933977920 0.891176384 0.848182446
## 570 1.384344e+00 1.3286907885 1.273723764 1.221091936 1.171382025
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## 572 1.660974e+00 1.6110652570 1.561107735 1.512581775 1.465945626
## 573 1.897102e+00 1.8538803363 1.810178637 1.766393271 1.716118616
## 574 -1.097837e+00 -1.1446756697 -1.192224567 -1.242157433 -1.293951781
## 575 1.579043e+00 1.5371423004 1.492798527 1.447007622 1.400299872
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## 581 5.984948e-01 0.5499588393 0.498927223 0.446764833 0.394439221
## 582 9.140637e-01 0.8766250715 0.842466853 0.801452926 0.747286118
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## 586 1.791406e+00 1.7494956962 1.706462445 1.661037919 1.611948943
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## 609 2.483306e-01 0.2007883945 0.151494574 0.101151436 0.050199749
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## 611 8.041610e-01 0.7606689343 0.712409193 0.660376772 0.605073274
## 612 8.055976e-01 0.7586207774 0.710318998 0.659845393 0.606712181
## 613 1.040683e+00 1.0113945722 0.975753583 0.931630894 0.877331195
## 614 1.038622e+00 0.9990816232 0.959532851 0.920483029 0.882501088
## 615 1.535153e+00 1.4952630009 1.456684632 1.405654627 1.344386636
## 616 7.637855e-01 0.7080057859 0.660646464 0.617954771 0.571786758
## 617 1.017238e+00 0.9743981874 0.933545227 0.892010530 0.847050812
## 618 2.248518e+00 2.2107005427 2.166672695 2.116222530 2.063642718
## 619 9.304225e-01 0.8833455595 0.831894513 0.777888007 0.720716117
## 620 1.081720e+00 1.0379332068 0.995027746 0.954019935 0.903398268
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## 623 1.857320e+00 1.8027062031 1.743691700 1.694805321 1.655290780
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## 626 2.658884e-01 0.2183470494 0.170111091 0.120485275 0.068845939
## 627 9.528240e-02 0.0598444628 0.008255593 -0.049303263 -0.103459023
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## 639 3.331853e-01 0.2887341430 0.242328199 0.195106282 0.147613856
## 640 -8.568663e-01 -0.9074605931 -0.956336567 -1.002301260 -1.045404580
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## 642 9.542068e-01 0.9052050689 0.857699148 0.811845755 0.755894847
## 643 1.700310e+00 1.6574852101 1.613027548 1.563599043 1.510824181
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## 646 5.620288e-01 0.5158533302 0.459099618 0.400825812 0.348153443
## 647 5.981208e-01 0.5532662400 0.509502709 0.466759661 0.424247858
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## 651 1.867072e+00 1.8169076614 1.764551794 1.710507873 1.654969806
## 652 1.372068e+00 1.3287511491 1.274967765 1.225124112 1.179707252
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## 657 1.250446e+00 1.2108799692 1.167322698 1.118211068 1.063385186
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## 659 7.931050e-01 0.7513453845 0.708000447 0.663355892 0.618027909
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## 663 1.270405e+00 1.2190482389 1.168477923 1.119508431 1.071771639
## 664 1.052607e+00 1.0075342926 0.961260349 0.912282143 0.861309038

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## 665 4.435068e-01 0.3905059234 0.338903324 0.289408080 0.241528052
## 666 -7.992833e-01 -0.8475781095 -0.895859948 -0.951207901 -1.011280588
## 667 8.932271e-01 0.8547331245 0.813496355 0.769987294 0.724534020
## 668 4.303374e-01 0.3739220476 0.314198200 0.257825122 0.194888572
## 669 -1.623236e-01 -0.2180379716 -0.266635981 -0.310848237 -0.358263310
## 670 4.715536e-01 0.4307292199 0.388425726 0.343805446 0.295090989
## 671 1.619304e+00 1.5902767256 1.559531554 1.526615934 1.490901510
## 672 1.806029e+00 1.7608743827 1.712418156 1.662538055 1.613336413
## 673 9.605848e-01 0.9107706112 0.863412831 0.817814764 0.772403145
## 674 -6.135703e-02 -0.1072305092 -0.154510517 -0.206003058 -0.260222125
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## 678 1.098896e+00 1.0537055070 1.008155155 0.961278639 0.911823683
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## 681 1.073894e+00 1.0298628071 0.977964704 0.917080534 0.859202690
## 682 7.657910e-01 0.7208431225 0.673942003 0.628817935 0.586847038
## 683 -3.511599e-01 -0.3916130583 -0.434496740 -0.479365853 -0.525707674
## 684 5.525799e-01 0.5037471836 0.453018313 0.399291055 0.342894002
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## 688 1.105325e+00 1.0614998641 1.018243422 0.974497230 0.929347018
## 689 2.762486e-01 0.2207229761 0.169013778 0.120407673 0.067353059
## 690 -5.566595e-01 -0.6026074159 -0.649525935 -0.693860993 -0.735708244
## 691 2.015262e-02 -0.0258707669 -0.071162635 -0.115726687 -0.159706928
## 692 1.597087e+00 1.5588520015 1.516364841 1.470394732 1.421245782
## 693 2.447815e-01 0.1964687810 0.148438714 0.102151604 0.057679158
## 694 1.150687e+00 1.1099072711 1.068743641 1.017734084 0.960758822
## 695 2.390608e-01 0.1932767639 0.144288625 0.091848315 0.036168910
## 696 4.103581e-02 -0.0048484504 -0.050092052 -0.095011264 -0.139973219
## 697 3.030105e-01 0.2668487011 0.226577246 0.182614520 0.135280335
## 698 7.820692e-01 0.7328153091 0.681656782 0.629577327 0.576559306
## 699 7.782358e-01 0.7347054740 0.687232947 0.637318764 0.583337155
## 700 2.665916e-01 0.2220705241 0.177018727 0.130478578 0.081365137
## 701 1.385038e+00 1.3302104053 1.272518401 1.213185966 1.153063628
## 702 1.856812e+00 1.8026850574 1.752503052 1.705354306 1.645989497
## 703 -1.327890e+00 -1.3734937922 -1.416466365 -1.457812496 -1.498209040
## 704 1.964285e+00 1.9338484735 1.904617496 1.873055163 1.836354905
## 705 1.845801e+00 1.7883114290 1.730009669 1.682408324 1.645392222
## 706 -1.282388e-01 -0.1720405791 -0.215695556 -0.259317276 -0.303531817
## 707 1.526234e+00 1.4873640204 1.446937544 1.405656179 1.363062176
## 708 3.530551e+00 3.4950978236 3.460782729 3.424868354 3.384391690
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## 710 -9.977522e-01 -1.0394092067 -1.080999261 -1.138094075 -1.202016834
## 711 1.938555e-03 -0.0374633236 -0.078903155 -0.121853872 -0.165827885
## 712 1.980659e-01 0.1548678799 0.114521942 0.074817854 0.032974397
## 713 7.150354e-01 0.6628569211 0.612832588 0.564487551 0.517888174
## 714 1.178086e+00 1.1333817190 1.088250458 1.041247783 0.991459782
## 715 9.825771e-01 0.9431923789 0.894243338 0.841107034 0.789519740
## 716 1.641684e+00 1.5955718158 1.552634721 1.511996787 1.458555641
## 717 -4.170243e-02 -0.0869692052 -0.136498422 -0.183576097 -0.229324618
## 718 -6.348571e-01 -0.6847870521 -0.741786262 -0.786017846 -0.823872774

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## 719 -7.542043e-02 -0.1164325904 -0.156135389 -0.195969654 -0.238083596
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## 721 -1.185948e+00 -1.2303348021 -1.276807560 -1.323282769 -1.369568426
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## 726 1.278858e+00 1.2358071825 1.185881349 1.127809943 1.073372423
## 727 7.713581e-01 0.7204082271 0.669546462 0.618933218 0.562094535
## 728 -1.252138e+00 -1.2902729683 -1.328871115 -1.369767320 -1.414775555
## 729 3.337247e-01 0.2984290572 0.261431792 0.220812747 0.175989533
## 730 -1.297765e-01 -0.1656355846 -0.202149867 -0.241728662 -0.286108453
## 731 -2.958392e-01 -0.3356066474 -0.375985857 -0.417165292 -0.459042459
## 732 -2.956873e-02 -0.0825652273 -0.136656560 -0.191367492 -0.246194827
## 733 1.936005e+00 1.8890425914 1.841344819 1.793468125 1.746367687
## 734 2.072002e+00 2.0337222099 1.993619188 1.951616456 1.907748183
## 735 9.225322e-01 0.8862241536 0.850543110 0.813207965 0.772197432
## 736 8.320963e-01 0.7840145091 0.734935349 0.685609364 0.636088478
## 737 1.517251e+00 1.4695696468 1.416396500 1.359907019 1.302325060
## 738 -1.490847e-01 -0.1983865529 -0.240667645 -0.282433080 -0.330545132
## 739 4.683954e-01 0.4241688981 0.381184654 0.338860791 0.295680596
## 740 8.802246e-02 0.0416708812 -0.004902011 -0.055361924 -0.111164453
## 741 6.578765e-01 0.6109978009 0.559224775 0.504047310 0.446419605
## 742 7.246369e-01 0.6758621199 0.629135116 0.574388709 0.516462750
## 743 1.934332e+00 1.8853481647 1.835876929 1.785946470 1.735696677
## 744 2.302746e+00 2.2511755321 2.205297557 2.164260666 2.126630954
## 745 1.887646e+00 1.8342295481 1.773907259 1.722366427 1.676673248
## 746 3.047136e-01 0.2578445967 0.208477468 0.157679857 0.105063392
## 747 8.648770e-01 0.8139934698 0.761857132 0.712366572 0.664210859
## 748 2.243463e+00 2.1939370147 2.144720778 2.095849903 2.047183925
## 749 4.513712e-01 0.4072910205 0.362350802 0.317205420 0.260963351
## 750 6.415288e-01 0.6025348316 0.558907821 0.511750044 0.462140869
## 751 -2.230555e-01 -0.2751108672 -0.330683482 -0.386820414 -0.441288245
## 752 4.723257e-01 0.4281935068 0.377922275 0.322581303 0.262979704
## 753 1.059050e+00 1.0139244456 0.965115131 0.913569108 0.859808722
## 754 -4.475943e-01 -0.5002442349 -0.550342923 -0.593130121 -0.631746910
## 755 5.317304e-01 0.4880715481 0.444093827 0.399984370 0.354306545
## 756 1.909579e+00 1.8716791557 1.825658926 1.771153879 1.718141465
## 757 1.447518e+00 1.4004505967 1.357280335 1.317265149 1.279245857
## 758 2.535240e-01 0.2102234923 0.162645769 0.110458277 0.054992581
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## 760 4.589451e-01 0.4110175456 0.363011713 0.314800773 0.266083602
## 761 -5.010499e-01 -0.5529412702 -0.602799813 -0.654353599 -0.711840938
## 762 7.965224e-01 0.7606900660 0.716299525 0.661941424 0.607702173
## 763 8.334032e-01 0.7936992588 0.744545178 0.694253678 0.643484622
## 764 -5.865716e-01 -0.6307368016 -0.684181667 -0.738286655 -0.786710900
## 765 1.362812e+00 1.3274622392 1.287496286 1.239795949 1.182118260
## 766 1.972296e+00 1.9413007684 1.907729553 1.867093007 1.816584372
## 767 4.855317e-01 0.4401994522 0.391169271 0.339681758 0.286550950
## 768 1.064293e+00 1.0240898558 0.976892567 0.923884994 0.865981023
## 769 5.297211e-01 0.4895695280 0.448786187 0.406213137 0.360472906
## 770 1.176879e+00 1.1348307455 1.090325391 1.044001644 0.996261639
## 771 2.050617e+00 2.0054299377 1.957751175 1.908567984 1.856806636
## 772 9.191402e-01 0.8746810223 0.820810972 0.772459594 0.727983026

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## 773 2.415545e+00 2.3716044727 2.327426854 2.281781248 2.233439795
## 774 1.976877e+00 1.9383393228 1.898101036 1.856521217 1.813718838
##          45        46        47        48        49
## 0    0.279137216  0.235876490  0.195665783  0.149427619  0.0992133131
## 1   -0.206187502 -0.260942375 -0.311693125 -0.356877569 -0.3994033195
## 2   -0.822733826 -0.867455037 -0.913008337 -0.960364574 -1.0075379304
## 3   -0.843875141 -0.905782788 -0.966708030 -1.030163680 -1.0882437407
## 4    1.497127417  1.488390010  1.479697129  1.471053616  1.4623415446
## 5    0.778426310  0.709930095  0.648828130  0.605828406  0.5629323933
## 6    1.144999074  1.100193165  1.057851315  1.017501879  0.9785113647
## 7    0.954375488  0.890883254  0.826455043  0.765046706  0.7060732253
## 8   -0.210519316 -0.254465392 -0.301682423 -0.352153548 -0.4059549512
## 9    1.007711531  0.942661508  0.882691465  0.825383178  0.7614869194
## 10   0.289119420  0.241582058  0.191392625  0.134514162  0.0804624106
## 11   1.818100800  1.765298458  1.708885655  1.644590529  1.5746673449
## 12   -1.165058208 -1.223796403 -1.277221455 -1.333519094 -1.3967802310
## 13   -0.232263605 -0.279689675 -0.331739088 -0.382052662 -0.4373006129
## 14   -0.605745139 -0.668140916 -0.722936398 -0.775271555 -0.8276395991
## 15   0.156847745  0.096232197  0.042963716 -0.016853519 -0.0761502675
## 16   -1.232238526 -1.277166720 -1.331169322 -1.397136030 -1.4694944370
## 17   -0.353010095 -0.418367440 -0.481177994 -0.539675138 -0.5945485997
## 18   0.101009954  0.064211235  0.027147383 -0.023809133 -0.0744112568
## 19   0.783967190  0.724604096  0.664115013  0.616966046  0.5646033997
## 20   1.068908108  0.997817893  0.925579963  0.862758519  0.8078872228
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## 32   -0.887951073 -0.949828165 -1.005034088 -1.050177711 -1.0885071974
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## 35   1.332641595  1.279519822  1.223883484  1.171837326  1.1149875051
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## 50   0.820551159  0.774180587  0.724545544  0.673557166  0.6228468847

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## 51  0.657669725  0.594375009  0.540911476  0.489186093  0.4329572593
## 52  0.986023426  0.926112875  0.867599733  0.811574246  0.7592888585
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## 55 -0.216512482 -0.271154922 -0.324453402 -0.378880131 -0.4337233230
## 56 -1.891860396 -1.940244155 -1.984307801 -2.039927608 -2.1003029438
## 57  0.114594747  0.060330575  0.001274931 -0.058020177 -0.1003473477
## 58 -0.136803456 -0.190172510 -0.248579000 -0.307485047 -0.3629090684
## 59  1.372928936  1.315133551  1.263473361  1.209142798  1.1523261702
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## 64 -0.028278339 -0.077576156 -0.130365565 -0.184781429 -0.2382077112
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## 73  0.194595557  0.141694939  0.093430968  0.048108698 -0.0013209338
## 74  1.674727911  1.613375765  1.551386424  1.494255006  1.4410391437
## 75 -0.227459142 -0.287809891 -0.340765316 -0.387698181 -0.4337471063
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## 78  0.322417972  0.265637561  0.207125699  0.149881942  0.0941484007
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## 81  1.481061152  1.430717180  1.373096759  1.314289197  1.2544740248
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## 84  1.612613621  1.563290010  1.510960408  1.460528506  1.4045619079
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## 89 -0.432070592 -0.453135594 -0.465524933 -0.505675059 -0.5561844362
## 90  1.233171216  1.181280951  1.125379723  1.066297947  1.0061902250
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## 99  0.417406809  0.370717499  0.353543444  0.311958561  0.2602959587
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## 101 -0.115861036 -0.165888084 -0.216063276 -0.260756864 -0.3099556914
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## 103 -2.231433137 -2.279008333 -2.315360027 -2.355885692 -2.4092801620
## 104  0.460274328  0.416232944  0.367683932  0.320359054  0.2768465462

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## 105 0.286416115 0.211750756 0.136655455 0.066281553 0.0028541962
## 106 0.236412887 0.180892508 0.132516169 0.085674905 0.0399877756
## 107 0.878207576 0.837989285 0.796819074 0.755684729 0.7183447417
## 108 1.124187729 1.065620771 1.010338515 0.955813359 0.9010679513
## 109 -0.106656082 -0.159439092 -0.212807960 -0.266594762 -0.3191181200
## 110 0.676504808 0.619919891 0.563167612 0.513248427 0.4600026157
## 111 0.728450216 0.675504984 0.612000256 0.549405742 0.4882810241
## 112 0.670784567 0.606548666 0.550609990 0.497892603 0.4337106287
## 113 0.950403553 0.898932403 0.840238283 0.777311389 0.7135489784
## 114 0.108193364 0.055211894 0.004601924 -0.048433197 -0.1030209890
## 115 1.118741610 1.064074775 1.012792970 0.954312877 0.8908397071
## 116 -0.318461035 -0.367646376 -0.415489587 -0.465835985 -0.5221882066
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## 119 0.419991197 0.360635713 0.301343945 0.245392343 0.1923238509
## 120 1.580844244 1.519928846 1.461723038 1.404361056 1.3439526380
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## 122 0.693937463 0.624914701 0.549951564 0.475253077 0.4125121576
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## 127 0.320692020 0.264910517 0.215562154 0.164155488 0.1125643397
## 128 0.318541457 0.253931997 0.188449494 0.128891389 0.0780763917
## 129 1.010813702 0.953440542 0.900003127 0.846399007 0.7857169688
## 130 0.842634819 0.787168300 0.738142208 0.692024798 0.6442760642
## 131 0.944648745 0.874400122 0.803976932 0.735763228 0.6712167274
## 132 1.953172894 1.893795895 1.831342262 1.766435468 1.7003696070
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## 134 -1.474469518 -1.541485623 -1.600973714 -1.656842501 -1.7164587901
## 135 0.533548993 0.473969633 0.422486294 0.374304277 0.3157038921
## 136 0.635365138 0.587089787 0.534938515 0.478372150 0.4170423576
## 137 -0.074108709 -0.122537389 -0.168534148 -0.213079550 -0.2611687997
## 138 0.019855974 -0.038704195 -0.099025745 -0.160985623 -0.2143139711
## 139 1.333430977 1.274837429 1.217599460 1.158706972 1.1037329047
## 140 1.241673537 1.181374974 1.120911911 1.062395393 1.0076934249
## 141 1.121555687 1.072589805 1.019821430 0.963380661 0.9091642169
## 142 -0.884113756 -0.939418561 -0.990435948 -1.047986002 -1.1080126965
## 143 0.569031619 0.516666746 0.465987762 0.412635134 0.3592277826
## 144 0.187236993 0.135604776 0.086711178 0.036696649 -0.0131401371
## 145 -1.726349803 -1.801337602 -1.875189720 -1.940054064 -1.9913774645
## 146 1.265609587 1.207932794 1.155845225 1.109277085 1.0655525736
## 147 1.744222306 1.684363333 1.624428055 1.565864233 1.5087826188
## 148 -1.018159176 -1.070114485 -1.097865537 -1.118709111 -1.1735861059
## 149 0.794391298 0.736202775 0.677809180 0.623596182 0.5700531580
## 150 -1.253336749 -1.294449510 -1.339439786 -1.392029306 -1.4477874408
## 151 2.215054784 2.168004806 2.114499783 2.055953114 1.9945989164
## 152 0.318118698 0.270566443 0.223849672 0.173064937 0.1220121257
## 153 -0.967760524 -1.039348086 -1.112301507 -1.178592739 -1.2230486149
## 154 0.677472869 0.624355420 0.559963526 0.483787540 0.4079091748
## 155 -1.665260184 -1.686313744 -1.711587367 -1.776592339 -1.8576865216
## 156 -1.084738779 -1.151863367 -1.213642259 -1.266526478 -1.3148526592
## 157 2.232686719 2.174649422 2.114065966 2.054049618 1.9976227503
## 158 -0.112836708 -0.174982047 -0.234348110 -0.293221466 -0.3551964116

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## 159 -0.092113676 -0.147338871 -0.195979378 -0.243248678 -0.2971132705
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## 161  0.201613041  0.145552489  0.094697910  0.039290874 -0.0217807918
## 162  2.767234589  2.716087297  2.667572426  2.615609343  2.5657031894
## 163  0.315431021  0.261218708  0.208690860  0.146820218  0.0764329836
## 164  0.816918708  0.751617392  0.689119534  0.633156257  0.5806701449
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## 485 1.864934960 1.811484318 1.754900303 1.696582464 1.6377907248
## 486 0.974214221 0.921807959 0.864297621 0.800926125 0.7344472228
## 487 2.317911207 2.265597208 2.210479982 2.151979703 2.0983260398
## 488 0.547591026 0.492104524 0.437620196 0.380192954 0.3209078141
## 489 0.283452950 0.233856414 0.178426124 0.125673789 0.0759059795
## 490 2.200484935 2.151242153 2.104781631 2.053237091 1.9908415331
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## 541 0.478668602 0.424850887 0.376478881 0.324991490 0.2696962247
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## 600 -0.944405194 -0.999119891 -1.053200361 -1.106238706 -1.1632887507
## 601  0.148806805  0.103042023  0.055720457  0.005763589 -0.0475614203
## 602 -0.166534725 -0.218433517 -0.272648600 -0.329027237 -0.3881837199
## 603  0.950962654  0.906165465  0.859813670  0.811162085  0.7584250756
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## 607  0.885605303  0.829117185  0.773280049  0.718796548  0.6652931895
## 608 -1.878686908 -1.933043073 -1.987939372 -2.042711617 -2.0971487843
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## 639  0.095410324  0.039924899 -0.012290975 -0.060871392 -0.1060128482
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## 644 -0.693855927 -0.742835194 -0.791563142 -0.840011227 -0.8883489955

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## 645 0.454402162 0.392595847 0.329052169 0.267036155 0.2043803656
## 646 0.299463769 0.252785131 0.206104814 0.157385709 0.1050216960
## 647 0.381047113 0.336738331 0.290764099 0.242604967 0.1923225620
## 648 -0.132724624 -0.183469931 -0.235987965 -0.290855931 -0.3468341434
## 649 1.279864070 1.226949333 1.176154860 1.124702271 1.0693144991
## 650 0.165111858 0.117692661 0.065993407 0.009539290 -0.0506540249
## 651 1.597836623 1.539795301 1.481914776 1.424702794 1.3654154143
## 652 1.131240763 1.079910590 1.027895670 0.975717235 0.9242564066
## 653 0.237929054 0.195437300 0.146054411 0.088581490 0.0269174490
## 654 -1.173373240 -1.228691892 -1.286501404 -1.345853882 -1.4079379495
## 655 0.302182386 0.240567514 0.175766321 0.112172400 0.0544133847
## 656 0.208010468 0.150546700 0.092057182 0.033608932 -0.0242851204
## 657 1.003782394 0.941595783 0.879951491 0.820747632 0.7637797792
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## 661 1.633553887 1.587098519 1.541712201 1.494532826 1.4420552249
## 662 -0.557894927 -0.621146673 -0.684491643 -0.739978272 -0.7982313243
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## 664 0.809255232 0.757122479 0.706342075 0.657742945 0.6120986538
## 665 0.195094919 0.150397849 0.107160458 0.059519087 0.0021262340
## 666 -1.075752402 -1.141367090 -1.199730662 -1.253294890 -1.3042529871
## 667 0.676786044 0.627553505 0.578211773 0.528916950 0.4793284207
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## 669 -0.416669022 -0.473065374 -0.518133039 -0.567424952 -0.6232469203
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## 671 1.451417916 1.411536916 1.372792619 1.330828104 1.2846974890
## 672 1.565309828 1.518678038 1.472862947 1.425842395 1.3745043306
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## 709 -0.756676491 -0.821801246 -0.875304663 -0.931800345 -0.9932226281
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## 754 -0.670713112 -0.714575430 -0.766695862 -0.828828049 -0.8942125402
## 755 0.306602887 0.258068191 0.209378255 0.160899105 0.1132542469
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## 759 -0.356107825 -0.401632727 -0.461367329 -0.513463346 -0.5737430200
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## 762 0.555677763 0.500514778 0.442370509 0.382397116 0.3212665257
## 763 0.589043884 0.534948813 0.483880718 0.432239990 0.3793679293
## 764 -0.831364569 -0.874275850 -0.917316303 -0.962426799 -1.0115340596
## 765 1.122175702 1.063852260 1.002564478 0.942003884 0.8862417286
## 766 1.754605308 1.691442896 1.633522370 1.572649741 1.5098108888
## 767 0.232455903 0.178609644 0.126757761 0.077865873 0.0248059008
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## 772 0.679718038 0.627255890 0.570485522 0.509914922 0.4459197719
## 773 2.181896852 2.127474907 2.070761774 2.013811645 1.9584215572
## 774 1.769369826 1.723866244 1.677559762 1.630513107 1.5828037574
##          50           51           52           53           54
## 0 0.0411348725 -0.017781646 -0.0823127514 -0.1477260877 -0.2084738301
## 1 -0.4447266437 -0.483066213 -0.5263942991 -0.5774985052 -0.6250004200
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## 3 -1.1424114451 -1.211755317 -1.2780253596 -1.3353049793 -1.3885415691
## 4 1.4533701128 1.444176069 1.4349477018 1.4256841458 1.4163888139
## 5 0.4956278046 0.448322323 0.3965429774 0.3428130859 0.2896550825
## 6 0.9385904717 0.893226677 0.8491788670 0.7970189668 0.7572707043
## 7 0.6457712057 0.587836169 0.5295015904 0.4707865925 0.4153223387
## 8 -0.4616633970 -0.518404988 -0.5754198742 -0.6307939961 -0.6842001692
## 9 0.6965661141 0.635032963 0.5635048655 0.4897440785 0.4219063085
## 10 0.0198773649 -0.042497580 -0.1030898455 -0.1657823017 -0.2221429738
## 11 1.5039975379 1.438120956 1.3797405931 1.3242760745 1.2690183677
## 12 -1.4406928187 -1.492352983 -1.5595589371 -1.6331330390 -1.7018952657
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## 14 -0.8818113404 -0.939401001 -1.0038500603 -1.0738947280 -1.1332436692
## 15 -0.1276873361 -0.180036823 -0.2243366489 -0.2734139020 -0.3294135998
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## 18 -0.1332079554 -0.197922285 -0.2668789978 -0.3384341479 -0.4099728465
## 19 0.5032036980 0.440169924 0.3829877734 0.3308235335 0.2565146316
## 20 0.7489566880 0.691579282 0.6260755867 0.5651381687 0.4997117445
## 21 0.9473866914 0.894832965 0.8453263951 0.7905285380 0.7281433420
## 22 1.6714074653 1.599469154 1.5188966817 1.4396496412 1.3696742964
## 23 0.0654796013 0.014693668 -0.0346278469 -0.0778273952 -0.1151678779
## 24 0.8038423726 0.736524443 0.6677677307 0.6051798433 0.5427951681
## 25 -1.1015759592 -1.178613917 -1.2495746363 -1.3080919267 -1.3628035617
## 26 0.6988110322 0.635414206 0.5697487952 0.5033806126 0.4429369023
## 27 0.3856160837 0.333621246 0.2841321840 0.2321840659 0.1692219918
## 28 0.8642311452 0.808527128 0.7570545414 0.7033573935 0.6489345212
## 29 -0.6098701533 -0.686243000 -0.7724318212 -0.8559708202 -0.9262635414
## 30 1.4475531859 1.386495822 1.3417648459 1.3403000301 1.2745160958

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## 245 -0.1228382940 -0.183556634  -0.2470252281 -0.3084882212 -0.3655831986
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## 251 -0.4510990534 -0.516746514 -0.5842282076 -0.6506858949 -0.7131220260
## 252 -0.2135970786 -0.267286913 -0.3235847754 -0.3830396624 -0.4445122382
## 253  0.2369157429  0.190432022  0.1444356199  0.0892163675  0.0204355211
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## 255 -0.0885108976 -0.145159225 -0.2042192300 -0.2683546389 -0.3200694035
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## 303 -0.8624773086 -0.925441038 -0.9844715610 -1.0447554226 -1.0972101562
## 304 -1.3881032463 -1.429582829 -1.4769750051 -1.5300998334 -1.5898480137
## 305 0.6113788051 0.552284645 0.4861464108 0.4280767083 0.3623159045
## 306 1.5111689241 1.448052217 1.3801600357 1.3124966408 1.2483355528
## 307 -0.0491325621 -0.121053964 -0.1881400764 -0.2314295132 -0.2626171655
## 308 0.4338152565 0.384088986 0.3223754880 0.2715133700 0.2106420631
## 309 0.8414569547 0.780696901 0.7239699128 0.6613057304 0.5923721236
## 310 0.0130675114 -0.039524354 -0.0927394207 -0.1540069825 -0.2116725208
## 311 1.8010974474 1.747427485 1.6935882712 1.6328361515 1.5817667806
## 312 -0.9194231424 -0.979142404 -1.0413066040 -1.0981328118 -1.1548894908
## 313 1.1144934398 1.055785401 0.9950531043 0.9365304908 0.8816305097
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## 458 -1.2074656076 -1.259316874 -1.3169507047 -1.3775681801 -1.4379878861
## 459 -0.3915826775 -0.442706583 -0.4961996008 -0.5433955588 -0.5863758991
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## 461 -0.1330534657 -0.193859514 -0.2515878708 -0.3165030762 -0.3745008749
## 462 -0.6251182608 -0.683760775 -0.7452401401 -0.8064609139 -0.8671720093

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## 463 0.4015268554 0.339722602 0.2807275444 0.2239464066 0.1669167315
## 464 0.2560076533 0.199828075 0.1407577883 0.0806226187 0.0213339394
## 465 2.2658316232 2.212011054 2.1619649313 2.1149716687 2.0692370144
## 466 0.4813452774 0.428848262 0.3779913683 0.3439137366 0.3004129057
## 467 -2.0258732064 -2.082587386 -2.1424143136 -2.2044141572 -2.2680603571
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## 473 2.3174928425 2.256704836 2.2006287622 2.1479934979 2.0902736567
## 474 -0.8925101538 -0.947972446 -1.0059930349 -1.0662623867 -1.1249735656
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## 516 -0.9970546684 -1.051989880 -1.1090175119 -1.1681014782 -1.2296595256

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## 520 0.6022802584 0.547104512 0.4920770427 0.4381185205 0.3851748576
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## 522 -0.0124340689 -0.063724901 -0.1193940665 -0.1788305022 -0.2348791382
## 523 1.3325246567 1.281703756 1.2283172034 1.1732057958 1.1170745724
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## 525 -0.6161783664 -0.671278706 -0.7276871764 -0.7863577972 -0.8479825858
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## 543 -0.3532916633 -0.403710608 -0.4565956322 -0.5256074295 -0.5890908408
## 544 -0.4547419054 -0.517106541 -0.5809720274 -0.6448342351 -0.7076884496
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## 546 -0.1043622912 -0.165623409 -0.2304690793 -0.2816270366 -0.3331597330
## 547 0.3425141199 0.287093386 0.2257074129 0.1580976884 0.1073554836
## 548 1.1069386809 1.043397648 0.9798999279 0.9157073014 0.8440209037
## 549 0.1289476752 0.071000604 0.0086581886 -0.0436202184 -0.1025013080
## 550 0.1825081502 0.141300924 0.0971435087 0.0503232775 0.0010473293
## 551 0.5266443102 0.480561699 0.4212850822 0.3529622643 0.3003580373
## 552 1.4641445915 1.411723259 1.3441431492 1.2862492967 1.2244921511
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## 555 0.8213789393 0.768984609 0.7117377720 0.6619830301 0.6079382619
## 556 1.2741186946 1.212281767 1.1493764155 1.0880254658 1.0284665184
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## 568 1.7791237568 1.731967538 1.6825747439 1.6226796253 1.5611184413
## 569 0.5400865999 0.484663420 0.4284566969 0.3715767024 0.3143559897
## 570 0.8433374805 0.783521248 0.7289020322 0.6702660543 0.6080905276

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## 572 1.1436941536 1.077924253 1.0097362629 0.9573074529 0.9024034198
## 573 1.3831952350 1.323682313 1.2675633105 1.2097520893 1.1439399724
## 574 -1.6203294111 -1.674014253 -1.7255617806 -1.7773229187 -1.8303037967
## 575 1.0790379118 1.024544565 0.9656650525 0.9023809164 0.8437865745
## 576 1.1884784925 1.141600159 1.0941146481 1.0458483456 0.9971666780
## 577 -0.6715793426 -0.722538478 -0.7718174069 -0.8193132720 -0.8641963263
## 578 -1.7827293313 -1.843772574 -1.9043803840 -1.9641331300 -2.0184883623
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## 618 1.7234135782 1.672704659 1.6253345379 1.5782298169 1.5284597284
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## 649  1.0150056143  0.960751451  0.9058795444  0.8501680878  0.7937103625
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## 681 0.5021422941 0.439954132 0.3771483645 0.3148053215 0.2532166746
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## 736 0.3099344040 0.249897450 0.1922912409 0.1359667047 0.0820593672
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## 80 -0.851779802 -0.9008156795 -0.94421019 -0.990945429 -1.0447742073
## 81 0.905188860 0.8518276246 0.79285416 0.733062091 0.6896467817
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## 86 0.630121661 0.5758969443 0.52692586 0.475958475 0.4290790328
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## 89 -0.875942778 -0.9308932561 -0.98523182 -1.036883028 -1.0865996923
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## 770  0.454026783  0.4064722527  0.35827815  0.309186566  0.2593208344
## 771  1.199494164  1.1407324187  1.08399668  1.029187358  0.9787931448
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## 773  1.584454601  1.5176102799  1.45155881  1.386591111  1.3213906434
## 774  1.285502779  1.2378385427  1.19279883  1.148102192  1.0984038761
##          60          61          62          63          64
## 0   -0.550072868 -0.6023219272 -0.654822755 -0.708848088 -0.753860239
## 1   -0.891625770 -0.9363170944 -0.984656157 -1.036107220 -1.072571164
## 2   -1.520302016 -1.5631207331 -1.600260647 -1.632516244 -1.671770547
## 3   -1.739575959 -1.7973503134 -1.867878794 -1.857186106 -1.908631485
## 4    1.364410163  1.3565308034  1.348505049  1.340476178  1.337794731
## 5   -0.045882405 -0.1046476597 -0.154025022 -0.193363447 -0.236490542
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## 103 -3.045227572 -3.0888075484 -3.131568033 -3.176747325 -3.228653741
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## 106 -0.545518006 -0.5922530843 -0.643990303 -0.680815703 -0.719889355
## 107 0.321202951 0.2870669745 0.252859474 0.223134816 0.193072334
## 108 0.260713959 0.2114185520 0.161746505 0.106467337 0.050886143
## 109 -0.958168932 -1.0101283529 -1.056887050 -1.097633715 -1.141028160
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## 766 0.289610049 0.286656590 0.293455323 0.3081512230 0.3337408144
## 767 -1.076727068 -1.081729555 -1.077414970 -1.0571507313 -1.0325488995
## 768 -0.529491142 -0.533762019 -0.529996848 -0.5162578363 -0.4912036500
## 769 -0.940797386 -0.948991574 -0.949911181 -0.9369376346 -0.9156782653
## 770 -0.283785307 -0.291702026 -0.290346144 -0.2780160913 -0.2500390466
## 771 0.382573013 0.375784185 0.377825268 0.3921185895 0.4135690914
## 772 -0.831841384 -0.838380555 -0.833582149 -0.8123415449 -0.7808191250
## 773 0.692910879 0.687917118 0.693531626 0.7081446032 0.7374781079
## 774 0.565765515 0.558810554 0.563015340 0.5767443176 0.6007168966
## 80 81 82 83 84
## 0 -1.0857167286 -1.076297e+00 -1.0668161947 -1.0574111853 -1.047451e+00
## 1 -1.3553267818 -1.352368e+00 -1.3494842236 -1.3466879289 -1.343921e+00
## 2 -1.9836270353 -1.983894e+00 -1.9841490887 -1.9843894874 -1.984619e+00
## 3 -2.2886184848 -2.282001e+00 -2.2755942820 -2.2695469119 -2.263138e+00
## 4 1.3272326493 1.334069e+00 1.3406626725 1.3468863899 1.353565e+00
## 5 -0.5612160421 -5.585512e-01 -0.5560127647 -0.5533916983 -5.496849e-01
## 6 0.0037564917 3.596759e-03 0.0034446099 0.0033009923 3.266174e-03
## 7 -0.4590727991 -4.585904e-01 -0.4581308302 -0.4576970658 -4.567871e-01
## 8 -1.4743528676 -1.473749e+00 -1.4731380473 -1.4724386633 -1.471219e+00
## 9 -0.5214867197 -5.184414e-01 -0.5144465497 -0.5106757009 -5.069066e-01
## 10 -1.1117210393 -1.107709e+00 -1.1021562676 -1.0939829913 -1.085320e+00
## 11 0.4294506362 4.334555e-01 0.4374109900 0.4411446380 4.448143e-01
## 12 -2.5627107311 -2.562065e+00 -2.5614158409 -2.5606225582 -2.558973e+00
## 13 -1.5591831648 -1.559190e+00 -1.5591243629 -1.5590628387 -1.559004e+00
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## 19 -0.5476382848 -5.430607e-01 -0.5381193892 -0.5334812415 -5.292154e-01
## 20 -0.4694367873 -4.687857e-01 -0.4681247996 -0.4675009845 -4.668182e-01
## 21 -0.0969442485 -9.778886e-02 -0.0985504237 -0.0990126543 -9.934618e-02
## 22 0.4076407009 4.118238e-01 0.4167064952 0.4224949576 4.280202e-01
## 23 -0.9389700879 -9.347193e-01 -0.9306703417 -0.9266846940 -9.220036e-01
## 24 -0.4231087878 -4.214908e-01 -0.4199495600 -0.4180260321 -4.140733e-01
## 25 -2.3054225592 -2.303246e+00 -2.3001323411 -2.2967754725 -2.293463e+00
## 26 -0.5049285223 -5.030035e-01 -0.5011698481 -0.4991131513 -4.956784e-01
## 27 -0.7263004072 -7.225785e-01 -0.7188387537 -0.7140388184 -7.084820e-01
## 28 -0.1561298340 -1.442853e-01 -0.1335763150 -0.1225004468 -1.110916e-01
## 29 -1.8508663830 -1.850109e+00 -1.8492584290 -1.8476101082 -1.845388e+00
## 30 0.3200330452 3.316839e-01 0.3479391587 0.3580230058 3.696418e-01
## 31 -0.5015346432 -4.947361e-01 -0.4853720565 -0.4765331410 -4.663433e-01
## 32 -2.2002797600 -2.199380e+00 -2.1985681518 -2.1985654902 -2.201210e+00
## 33 0.0808422309 8.606623e-02 0.0939132078 0.1024719672 1.108054e-01
## 34 -1.7631192631 -1.763862e+00 -1.7645084871 -1.7647183993 -1.764611e+00
## 35 -0.1491652412 -1.425717e-01 -0.1336700845 -0.1252676601 -1.167259e-01
## 36 -2.2369239613 -2.233418e+00 -2.2299960412 -2.2267660663 -2.223008e+00
## 37 -0.6319108065 -6.309391e-01 -0.6299724614 -0.6290600383 -6.279101e-01
## 38 -1.2499756359 -1.244682e+00 -1.2395391035 -1.2340976778 -1.226254e+00
## 39 -1.3704336887 -1.366580e+00 -1.3627625602 -1.3591594310 -1.355450e+00
## 40 1.1578617643 1.160200e+00 1.1624676224 1.1648660964 1.168429e+00
## 41 -0.4813687018 -4.793768e-01 -0.4773561710 -0.4754488872 -4.735152e-01
## 42 -3.9023414916 -3.898444e+00 -3.8946757635 -3.8911183697 -3.887270e+00
## 43 0.1130890174 1.145203e-01 0.1160324490 0.1174597643 1.176046e-01
## 44 0.6220008656 6.283409e-01 0.6345599419 0.6410551358 6.503387e-01
## 45 -0.0296188171 -2.729622e-02 -0.0233686906 -0.0189732800 -1.466419e-02
## 46 0.1894130232 1.927302e-01 0.1975437368 0.2033227802 2.088391e-01
## 47 -1.0356468923 -1.035157e+00 -1.0346908200 -1.0342505611 -1.033518e+00
## 48 0.4021032828 4.233240e-01 0.4506311331 0.4470371304 3.547172e-01
## 49 0.0006387195 -7.290457e-06 -0.0001982588 -0.0002082607 -2.139864e-04
## 50 -0.5940640172 -5.881877e-01 -0.5804216249 -0.5722210167 -5.639451e-01
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## 52 -0.5067929638 -5.051636e-01 -0.5035504644 -0.5020277560 -5.005033e-01
## 53 0.8630770556 8.635118e-01 0.8639259264 0.8643168203 8.650928e-01
## 54 -1.6653503377 -1.656783e+00 -1.6481120696 -1.6374075611 -1.627081e+00
## 55 -1.5312724625 -1.527224e+00 -1.5233686597 -1.5194341948 -1.514100e+00
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## 57 -1.3251013666 -1.318422e+00 -1.3112717483 -1.3035861240 -1.295943e+00
## 58 -1.5963299621 -1.590874e+00 -1.5845750296 -1.5781870243 -1.571009e+00
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## 66 -1.9391743095 -1.933069e+00 -1.9260083570 -1.9185120493 -1.909927e+00
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## 69 -0.5917304155 -5.920096e-01 -0.5922754652 -0.5924809583 -5.924335e-01
## 70 0.3964996517 3.998069e-01 0.4029823118 0.3981477328 3.648748e-01
## 71 -1.8389102574 -1.835838e+00 -1.8332356218 -1.8315036894 -1.830176e+00
## 72 0.4706315138 4.711537e-01 0.4722842322 0.4733513343 4.744929e-01

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## 73 -1.1438624108 -1.143987e+00 -1.1440761685 -1.1441605891 -1.144171e+00
## 74 0.2386740977 2.422221e-01 0.2474826715 0.2524482683 2.575991e-01
## 75 -1.5922484339 -1.587838e+00 -1.5814146674 -1.5753519274 -1.568161e+00
## 76 -0.4447272682 -4.422936e-01 -0.4398893562 -0.4376199763 -4.354082e-01
## 77 -1.2736394020 -1.270908e+00 -1.2680774629 -1.2639128962 -1.258791e+00
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## 79 -1.3301137358 -1.314246e+00 -1.2937011778 -1.2671780045 -1.241861e+00
## 80 -1.6849133459 -1.685069e+00 -1.6852181903 -1.6853585672 -1.685151e+00
## 81 0.1441645031 1.477510e-01 0.1511672841 0.1545672156 1.587509e-01
## 82 -1.9833616460 -1.983299e+00 -1.9832391087 -1.9831826818 -1.982915e+00
## 83 -2.6592274744 -2.657912e+00 -2.6566143192 -2.6553890090 -2.654036e+00
## 84 0.1186075947 1.197227e-01 0.1208828178 0.1226177593 1.247652e-01
## 85 -0.4580317424 -4.569929e-01 -0.4560034516 -0.4550694502 -4.535916e-01
## 86 -0.1053693952 -1.051523e-01 -0.1049455935 -0.1043612949 -1.020463e-01
## 87 -2.3391278472 -2.336981e+00 -2.3347800407 -2.3327027733 -2.330492e+00
## 88 -2.0427403783 -2.035675e+00 -2.0276894441 -2.0198860680 -2.011237e+00
## 89 -1.6842186571 -1.684005e+00 -1.6838023220 -1.6836106052 -1.683428e+00
## 90 -0.1785151478 -1.701605e-01 -0.1610400393 -0.1523450089 -1.435124e-01
## 91 -0.9616259016 -9.597464e-01 -0.9568135111 -0.9540451335 -9.511736e-01
## 92 0.3555444544 3.600477e-01 0.3645333565 0.3700489830 3.762978e-01
## 93 -2.6404385808 -2.619960e+00 -2.6001575791 -2.5814654029 -2.562732e+00
## 94 -2.6944795954 -2.690643e+00 -2.6863830354 -2.6793759208 -2.673424e+00
## 95 -1.0615707139 -1.056777e+00 -1.0505603220 -1.0425261218 -1.034857e+00
## 96 -0.8042461018 -8.002136e-01 -0.7963724322 -0.7915345706 -7.814430e-01
## 97 0.3432030447 3.593224e-01 0.3752031836 0.3682491691 2.702855e-01
## 98 -2.1806969743 -2.176826e+00 -2.1710542112 -2.1656062162 -2.160115e+00
## 99 -0.9596347578 -9.571541e-01 -0.9547070733 -0.9523973140 -9.501192e-01
## 100 -1.4787391395 -1.475027e+00 -1.4713655304 -1.4679094381 -1.464420e+00
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## 108 -0.3060702893 -2.996730e-01 -0.2933753230 -0.2874307894 -2.815144e-01
## 109 -1.4992896469 -1.494488e+00 -1.4890964625 -1.4797230476 -1.470528e+00
## 110 -0.6906932035 -6.897704e-01 -0.6888913486 -0.6880616179 -6.868705e-01
## 111 -0.8094290885 -8.091099e-01 -0.8088059242 -0.8085189652 -8.079659e-01
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## 113 -0.4592309083 -4.477625e-01 -0.4353753362 -0.4234132192 -4.115315e-01
## 114 -1.2519787622 -1.244892e+00 -1.2381413190 -1.2302149468 -1.215630e+00
## 115 -0.3403306806 -3.385304e-01 -0.3367180367 -0.3350073260 -3.333043e-01
## 116 -1.6639096514 -1.663553e+00 -1.6632127502 -1.6628918363 -1.662462e+00
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## 118 -1.67778580833 -1.673769e+00 -1.6696599012 -1.6657811032 -1.661879e+00
## 119 -1.0633944743 -1.053095e+00 -1.0413650118 -1.0278596036 -1.015155e+00
## 120 0.0696051524 7.031356e-02 0.0709883385 0.0716252776 7.235605e-02
## 121 0.7066513231 7.062751e-01 0.7059168294 0.7055786046 7.053832e-01
## 122 -0.7155009614 -7.149604e-01 -0.7143625577 -0.7137982751 -7.131425e-01
## 123 -2.3387546626 -2.333210e+00 -2.3279287984 -2.3225118901 -2.315030e+00
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## 125 -2.2410026249 -2.232548e+00 -2.2177247171 -2.2037328200 -2.189687e+00
## 126 -1.3854494603 -1.387865e+00 -1.3900499792 -1.3914258023 -1.392451e+00

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## 127 -1.0320760672 -1.026844e+00 -1.0216200499 -1.0166893643 -1.011740e+00
## 128 -1.1426563445 -1.133787e+00 -1.1222630598 -1.1102772946 -1.097421e+00
## 129 -0.4030126155 -3.998514e-01 -0.3968402915 -0.3934550290 -3.877717e-01
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## 131 -0.5821066646 -5.754842e-01 -0.5690117111 -0.5623333305 -5.531514e-01
## 132 0.4875666607 4.878188e-01 0.4880590644 0.4882858100 4.886259e-01
## 133 -1.0889224317 -1.084356e+00 -1.0799104157 -1.0752073198 -1.070053e+00
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## 136 -0.8889780830 -8.782700e-01 -0.8659194377 -0.8515172155 -8.372568e-01
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## 138 -1.4408964705 -1.436044e+00 -1.4312389338 -1.4267033412 -1.422121e+00
## 139 -0.0130877296 -1.246891e-02 -0.0112462559 -0.0100921619 -8.793076e-03
## 140 -0.1891225469 -1.862524e-01 -0.1833883776 -0.1803031760 -1.754742e-01
## 141 -0.2409831519 -2.372225e-01 -0.2321070894 -0.2266634686 -2.214139e-01
## 142 -2.2905456911 -2.280640e+00 -2.2704393175 -2.2571303645 -2.242882e+00
## 143 -0.7329514532 -7.212914e-01 -0.7100603178 -0.6987061848 -6.841528e-01
## 144 -1.1429345519 -1.138021e+00 -1.1282702467 -1.1190157436 -1.109870e+00
## 145 -3.1119319094 -3.110049e+00 -3.1081177777 -3.1062952607 -3.104388e+00
## 146 -0.0096142856 -4.545951e-03 0.0002817863 0.0049988658 1.035856e-02
## 147 0.3232006203 3.261574e-01 0.3290663671 0.3322352538 3.373478e-01
## 148 -2.3463164503 -2.346698e+00 -2.3441851235 -2.3418128237 -2.339548e+00
## 149 -0.6403566071 -6.304850e-01 -0.6201228821 -0.6051436696 -5.908455e-01
## 150 -2.5096564386 -2.505620e+00 -2.5016872980 -2.4979748773 -2.493839e+00
## 151 0.7612273450 7.700396e-01 0.7814358870 0.7933977179 8.058059e-01
## 152 -1.0438363609 -1.042820e+00 -1.0405625861 -1.0367384008 -1.033088e+00
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## 156 -2.4790927112 -2.473971e+00 -2.4690929114 -2.4642298094 -2.458205e+00
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## 159 -1.4288871318 -1.425851e+00 -1.4229598101 -1.4194735501 -1.412728e+00
## 160 -0.6936405166 -6.942818e-01 -0.6948926913 -0.6950137321 -6.930721e-01
## 161 -1.2192575114 -1.218242e+00 -1.2172750322 -1.2162884577 -1.214952e+00
## 162 1.4008988006 1.407340e+00 1.4137244891 1.4197505587 1.425774e+00
## 163 -1.1362003862 -1.132080e+00 -1.1279554287 -1.1240625074 -1.120111e+00
## 164 -0.5628776282 -5.593962e-01 -0.5560801094 -0.5526956848 -5.481037e-01
## 165 -0.3779889276 -3.763668e-01 -0.3740896660 -0.3716465737 -3.693454e-01
## 166 -1.7303644671 -1.729185e+00 -1.7271339942 -1.7248254209 -1.722558e+00
## 167 -0.7271724339 -7.170034e-01 -0.7071779776 -0.6979035353 -6.876879e-01
## 168 0.9959475212 9.957473e-01 0.9955566531 0.9955294695 9.961935e-01
## 169 -0.0466712977 -4.557422e-02 -0.0444712294 -0.0434300908 -4.236824e-02
## 170 -0.7536811665 -7.495823e-01 -0.7456780337 -0.7414960330 -7.352614e-01
## 171 -0.8860606176 -8.825936e-01 -0.8792911259 -0.8758568579 -8.708813e-01
## 172 -0.7983276688 -7.911586e-01 -0.7821934884 -0.7737311390 -7.640812e-01
## 173 -1.0032840560 -9.791966e-01 -0.9552663308 -0.9305944144 -9.239688e-01
## 174 -1.0555197118 -1.047169e+00 -1.0376150281 -1.0279544616 -1.018388e+00
## 175 0.4705917927 4.768497e-01 0.4844140484 0.4936597673 5.028585e-01
## 176 -0.7117147724 -7.101678e-01 -0.7086602392 -0.7072372627 -7.056681e-01
## 177 -0.1850832733 -1.834379e-01 -0.1818705773 -0.1803911727 -1.782996e-01
## 178 -1.1162036983 -1.116528e+00 -1.1168373184 -1.1171290923 -1.117196e+00
## 179 -1.8226598711 -1.821298e+00 -1.8198419049 -1.8174351647 -1.814345e+00
## 180 0.7291973263 7.298453e-01 0.7304625537 0.7310451744 7.320688e-01

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## 181 -2.1974956346 -2.192841e+00 -2.1884063780 -2.1840503222 -2.178979e+00
## 182  0.9702947480  9.761881e-01  0.9859119005  0.9951274766  1.004153e+00
## 183 -1.2852117341 -1.278669e+00 -1.2723113867 -1.2655779527 -1.255843e+00
## 184 -2.0218128232 -2.021347e+00 -2.0209026128 -2.0204834727 -2.019669e+00
## 185 -1.3119088814 -1.308014e+00 -1.3041281737 -1.3004599428 -1.296734e+00
## 186 -1.7583685812 -1.753261e+00 -1.7483964769 -1.7434029960 -1.736487e+00
## 187 -1.5569558511 -1.556321e+00 -1.5556496088 -1.5550160241 -1.554333e+00
## 188 -1.0506087864 -1.043348e+00 -1.0338711426 -1.0246195540 -1.014322e+00
## 189 -0.6132610903 -6.109224e-01 -0.6082990253 -0.6036784712 -5.992138e-01
## 190 -0.6098230078 -5.993789e-01 -0.5891199796 -0.6003389145 -6.888974e-01
## 191  0.0626748239  6.554803e-02  0.0682848375  0.0711963131  7.573244e-02
## 192 -0.2377630396 -2.384138e-01 -0.2361921321 -0.2340950319 -2.320933e-01
## 193 -0.7057540935 -7.006981e-01 -0.6957754034 -0.6906858117 -6.836417e-01
## 194 -3.0372735340 -3.036753e+00 -3.0332559618 -3.0299552228 -3.026805e+00
## 195 -1.5798254225 -1.576787e+00 -1.5738709501 -1.5711230517 -1.568506e+00
## 196 -0.4409132494 -4.261247e-01 -0.4104533643 -0.3938407864 -3.772837e-01
## 197 -0.9328848277 -9.212480e-01 -0.9103642661 -0.9015548389 -8.946512e-01
## 198 -1.0891890174 -1.088644e+00 -1.0881255215 -1.0876357955 -1.086850e+00
## 199 -0.5541345864 -5.542180e-01 -0.5542975014 -0.5543725216 -5.541673e-01
## 200 -0.3010153159 -2.737751e-01 -0.2416762580 -0.2173511249 -1.869058e-01
## 201 -1.8836680202 -1.859292e+00 -1.8297366196 -1.7957921159 -1.757298e+00
## 202 -0.9791115204 -9.521611e-01 -0.9210757791 -0.8822040864 -8.418287e-01
## 203 -1.9254896853 -1.896740e+00 -1.8669654468 -1.8275113024 -1.789538e+00
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## 205  0.1363165320  1.689943e-01  0.1957918793  0.2272077278  2.693508e-01
## 206  0.1314052780  1.543361e-01  0.1829108913  0.2146419444  2.478787e-01
## 207 -1.8586726774 -1.833604e+00 -1.8060380853 -1.7681864512 -1.722032e+00
## 208 -1.7533448513 -1.719321e+00 -1.6790021734 -1.6460061950 -1.597743e+00
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## 210 -1.3329101198 -1.300464e+00 -1.2677529761 -1.2339240159 -1.193628e+00
## 211 -1.1799077170 -1.153809e+00 -1.1172424961 -1.0793894810 -1.039304e+00
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## 213 -0.7178988857 -6.835089e-01 -0.6475622795 -0.6087703231 -5.830897e-01
## 214 -0.3881520933 -3.585810e-01 -0.3286747794 -0.2971673318 -2.543450e-01
## 215 -0.6411456795 -6.010344e-01 -0.5530192058 -0.5281618783 -5.499223e-01
## 216  1.0908199172  1.120145e+00  1.1559251273  1.1999310041  1.256137e+00
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## 219 -0.7506720256 -7.251179e-01 -0.6907448590 -0.6496728382 -6.018567e-01
## 220 -0.0849200562 -5.462560e-02 -0.0227167419  0.0102389235  5.118230e-02
## 221 -2.3516705752 -2.310823e+00 -2.2650869691 -2.2181462590 -2.170709e+00
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## 223 -1.0931701137 -1.059106e+00 -1.0243072509 -0.9883944098 -9.500319e-01
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## 225 -1.4398506507 -1.417494e+00 -1.3774130372 -1.3374484344 -1.293299e+00
## 226 -0.8430888792 -8.053597e-01 -0.7621509910 -0.7185318080 -6.720824e-01
## 227  0.1908880563  2.228534e-01  0.2645999008  0.3055141906  3.513817e-01
## 228  0.1986582535  2.271576e-01  0.2581760058  0.2971421658  3.312717e-01
## 229 -2.4523480421 -2.417990e+00 -2.3717849058 -2.3125197178 -2.257651e+00
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## 235 1.4058208846 1.435931e+00 1.4814934337 1.5255097146 1.570732e+00
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## 237 -0.7652074304 -7.360494e-01 -0.7014295912 -0.6640565454 -6.257550e-01
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## 239 -1.6337429211 -1.600172e+00 -1.5640836101 -1.5212324879 -1.481201e+00
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## 241 -0.1963848242 -1.691485e-01 -0.1349803758 -0.1031072960 -6.890338e-02
## 242 -2.7307581366 -2.699995e+00 -2.6678538851 -2.6350111957 -2.594761e+00
## 243 -2.2783172393 -2.244686e+00 -2.2096674087 -2.1749045804 -2.138861e+00
## 244 -1.0600011380 -1.037693e+00 -1.0028372907 -0.9609433778 -9.191003e-01
## 245 -1.1988047417 -1.163246e+00 -1.1248141763 -1.0825738385 -1.043263e+00
## 246 -0.2919880412 -2.643455e-01 -0.2327956687 -0.1933879497 -1.550468e-01
## 247 -0.7603249940 -7.257398e-01 -0.6863094896 -0.6471661841 -6.057104e-01
## 248 -1.0813974997 -1.054564e+00 -1.0243363338 -0.9822114962 -9.469114e-01
## 249 -2.3282897555 -2.302917e+00 -2.2646883583 -2.2289221798 -2.196738e+00
## 250 -0.8905537467 -8.624402e-01 -0.8320377966 -0.8002408439 -7.619599e-01
## 251 -1.5356739061 -1.501200e+00 -1.4527650465 -1.4128438131 -1.380630e+00
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## 254 -0.7449928852 -7.209351e-01 -0.6927802520 -0.6571166712 -6.126498e-01
## 255 -1.1280837775 -1.091156e+00 -1.0556758539 -1.0126306787 -9.753333e-01
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## 257 -0.9609053943 -9.304618e-01 -0.8960448096 -0.8600043927 -8.220159e-01
## 258 -0.7401961074 -7.026294e-01 -0.6592634979 -0.6129462808 -5.646653e-01
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## 263 0.1456729892 1.700220e-01 0.2050615889 0.2431470567 2.733787e-01
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## 267 -1.6154833184 -1.581731e+00 -1.5457236320 -1.5066934972 -1.464959e+00
## 268 1.1689502163 1.203964e+00 1.2409421865 1.2763041093 1.312922e+00
## 269 0.1863610673 2.087031e-01 0.2411331261 0.2827149044 3.238652e-01
## 270 0.7069894474 7.483018e-01 0.7932136577 0.8376505939 8.801215e-01
## 271 -0.0096538460 1.971297e-02 0.0538242401 0.0896377813 1.329743e-01
## 272 -2.3593582424 -2.319595e+00 -2.2776942971 -2.2417133957 -2.207886e+00
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## 274 -0.8768358048 -9.239656e-01 -0.8842174247 -0.8395309532 -7.955655e-01
## 275 -2.2426661998 -2.218523e+00 -2.1857905139 -2.1572956556 -2.119706e+00
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## 277 -2.4373579209 -2.410557e+00 -2.3791377425 -2.3567154588 -2.326518e+00
## 278 -1.0133899478 -9.762518e-01 -0.9272617669 -0.8801094659 -8.431999e-01
## 279 -0.8625005553 -8.311896e-01 -0.7881842113 -0.7524230485 -7.137015e-01
## 280 -0.7617812025 -7.303208e-01 -0.6964812393 -0.6607634696 -6.188730e-01
## 281 -1.1925961924 -1.167263e+00 -1.1379959160 -1.1069724103 -1.073603e+00
## 282 -2.8198692069 -2.781189e+00 -2.7384888735 -2.6955828637 -2.653395e+00
## 283 0.8681308078 9.028340e-01 0.9407110645 0.9554446816 9.978071e-01
## 284 -1.6500848178 -1.629696e+00 -1.6093051826 -1.5838871904 -1.549904e+00
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## 290 0.2200038677 2.596257e-01 0.3016080428 0.3433151887 3.857722e-01
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## 297 -2.4826417804 -2.452149e+00 -2.4172875419 -2.3818195451 -2.344870e+00
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## 299 -1.1192850697 -1.090094e+00 -1.0574117452 -1.0209515908 -9.777954e-01
## 300 -0.9359163778 -9.054213e-01 -0.8614316547 -0.8213393639 -7.766562e-01
## 301 -2.2783944750 -2.252239e+00 -2.2165871388 -2.1822011015 -2.138948e+00
## 302 -1.3037335342 -1.273415e+00 -1.2278699685 -1.1798348376 -1.129593e+00
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## 304 -2.3760403021 -2.344103e+00 -2.2962366439 -2.2382517954 -2.182883e+00
## 305 -0.5124358785 -4.840643e-01 -0.4527422947 -0.4182018971 -3.794499e-01
## 306 0.3306755795 3.614059e-01 0.3986174134 0.4397430754 4.831973e-01
## 307 -0.9845673881 -9.523801e-01 -0.9129288892 -0.8835585500 -8.514438e-01
## 308 -0.5859728136 -5.517463e-01 -0.5024725420 -0.4416245834 -3.737878e-01
## 309 -0.2333159814 -2.019690e-01 -0.1648730927 -0.1301999628 -1.041231e-01
## 310 -1.0228094766 -9.856002e-01 -0.9704026076 -0.9429798623 -9.042440e-01
## 311 0.8629260910 8.669370e-01 0.8903504069 0.9241714923 9.657713e-01
## 312 -1.9783233305 -1.947331e+00 -1.9148882990 -1.8711524135 -1.829785e+00
## 313 0.1085190614 1.428719e-01 0.1796267295 0.2193634354 2.601284e-01
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## 325 -1.8421638049 -1.801644e+00 -1.7538842473 -1.7017568038 -1.648090e+00
## 326 0.3219871848 3.527460e-01 0.3933186703 0.4327462312 4.839654e-01
## 327 1.6654596441 1.691237e+00 1.7297408245 1.7773457395 1.825047e+00
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## 329 -2.0582240030 -2.026938e+00 -1.9936095742 -1.9586782323 -1.915400e+00
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## 331 -1.1954223617 -1.172189e+00 -1.1472969939 -1.1029525887 -1.056488e+00
## 332 -1.8979274024 -1.855200e+00 -1.8093071570 -1.7630350352 -1.715738e+00
## 333 -0.6482262407 -5.944610e-01 -0.5389530785 -0.4901913658 -4.477123e-01
## 334 -0.2235880449 -1.912694e-01 -0.1502052505 -0.1171349865 -8.225042e-02
## 335 -2.0421711813 -2.012235e+00 -1.9727427395 -1.9282348283 -1.884392e+00
## 336 -0.3416279417 -3.148792e-01 -0.2793296594 -0.2349365678 -1.858731e-01
## 337 -0.9705688709 -9.429693e-01 -0.9129993016 -0.8783957592 -8.453235e-01
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## 344 -1.4527353481 -1.458266e+00 -1.4320505213 -1.3947802693 -1.348356e+00
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## 347 -2.4118704967 -2.375578e+00 -2.3429074759 -2.3126881009 -2.277572e+00
## 348 0.8084338918 8.424034e-01 0.8811298097 0.9186010512 9.553527e-01
## 349 -1.4579760842 -1.428413e+00 -1.3962762798 -1.3620574525 -1.328339e+00
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## 357 -1.1883516232 -1.157402e+00 -1.1202569705 -1.0793073426 -1.035841e+00
## 358 -1.9963704110 -1.951838e+00 -1.8984742246 -1.8413140998 -1.783980e+00
## 359 -0.8254100834 -7.932482e-01 -0.7610426351 -0.7273724840 -6.855888e-01
## 360 -2.5185353474 -2.492353e+00 -2.4605363710 -2.4270312774 -2.385617e+00
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## 362 -1.7083836037 -1.713671e+00 -1.6817582876 -1.6417803018 -1.598864e+00
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## 364 -0.0193715762 1.874655e-02 0.0657851200 0.1205374656 1.754751e-01
## 365 -0.9672902486 -9.493890e-01 -0.9252747087 -0.8947200269 -8.692096e-01
## 366 -2.8452611923 -2.815201e+00 -2.7859618485 -2.7526346632 -2.714477e+00
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## 372 -0.6344495317 -6.049921e-01 -0.5708640354 -0.5354706462 -5.171416e-01
## 373 -2.2459104231 -2.206616e+00 -2.1643365898 -2.1205461458 -2.074974e+00
## 374 -0.2480969323 -2.243044e-01 -0.2077630750 -0.1774548928 -1.375510e-01
## 375 -0.8876995360 -8.481704e-01 -0.7882681386 -0.7400321617 -6.957510e-01
## 376 -3.1925064931 -3.164156e+00 -3.1349689985 -3.0967978224 -3.058480e+00
## 377 -0.3572842869 -3.263770e-01 -0.2915507472 -0.2604755773 -2.227425e-01
## 378 0.9617874353 9.945015e-01 1.0288190717 1.0667939491 1.121956e+00
## 379 -0.0224069550 6.737592e-03 0.0481169318 0.0972417685 1.360112e-01
## 380 -2.0659161754 -2.035611e+00 -2.0040577534 -1.9730278781 -1.941468e+00
## 381 -1.7013274819 -1.658518e+00 -1.6202348123 -1.5869039397 -1.546114e+00
## 382 -1.0494907879 -1.008652e+00 -0.9645883763 -0.9188138395 -8.714707e-01
## 383 0.0280347578 5.544256e-02 0.0864887977 0.1193808348 1.536330e-01
## 384 -2.0364922880 -2.004677e+00 -1.9659532999 -1.9202250561 -1.874702e+00
## 385 -2.1344683242 -2.098557e+00 -2.0629868881 -2.0241321346 -1.985137e+00
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## 389 -0.2972745302 -2.665329e-01 -0.2293582585 -0.1939361461 -1.526434e-01
## 390 -0.6869057236 -6.500045e-01 -0.6108267658 -0.5651930912 -5.225201e-01
## 391 -0.5233891900 -4.941153e-01 -0.4627409126 -0.4209792847 -3.783708e-01
## 392 0.5286174344 5.651128e-01 0.5911523148 0.6026125236 6.403368e-01
## 393 -2.3670914611 -2.335073e+00 -2.3016379907 -2.2561088186 -2.211820e+00
## 394 -1.5726458959 -1.550691e+00 -1.5217456557 -1.4897552920 -1.454915e+00
## 395 -1.4749872250 -1.434482e+00 -1.3969323826 -1.3526228590 -1.306751e+00
## 396 0.8397108946 8.713460e-01 0.9055997676 0.9482461274 1.000342e+00

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## 397 -0.2466071033 -2.200596e-01 -0.1862742687 -0.1554955504 -1.269842e-01
## 398 -0.6298333785 -6.027403e-01 -0.5671739361 -0.5383562366 -5.090937e-01
## 399 -2.5339029767 -2.502616e+00 -2.4776146763 -2.4419557486 -2.405880e+00
## 400 -1.4873145731 -1.456540e+00 -1.4187719130 -1.3773846249 -1.326333e+00
## 401 0.3966672522 4.294786e-01 0.4682280694 0.5122316254 5.619170e-01
## 402 0.2494385744 2.841821e-01 0.3288618913 0.3740657995 4.191557e-01
## 403 0.3100918688 3.653190e-01 0.4069709688 0.4577883186 5.165884e-01
## 404 -0.1413289129 -2.006245e-01 -0.1498079396 -0.0951993508 -3.115564e-02
## 405 -2.1573528104 -2.122042e+00 -2.0821724782 -2.0403470040 -1.995555e+00
## 406 -0.6997838759 -6.466960e-01 -0.5939695253 -0.5456562510 -4.974479e-01
## 407 -2.2611710310 -2.222443e+00 -2.1804055381 -2.1325341336 -2.085708e+00
## 408 -2.0925776483 -2.051096e+00 -2.0112155742 -1.9556134101 -1.900970e+00
## 409 -0.1249778977 -8.337366e-02 -0.0391099270 0.0183333832 7.707316e-02
## 410 -1.9670812008 -1.926550e+00 -1.8807788657 -1.8306764861 -1.781689e+00
## 411 0.0317678257 6.786750e-02 0.1051406235 0.1487229728 1.970008e-01
## 412 -0.0566722451 -1.095774e-02 0.0354905823 0.0820319531 1.413277e-01
## 413 -0.8477000531 -8.045837e-01 -0.7615403377 -0.7198402104 -6.717364e-01
## 414 -1.7112302119 -1.677068e+00 -1.6388789859 -1.5949334423 -1.546946e+00
## 415 -0.6843484545 -6.322722e-01 -0.5730523309 -0.5155897315 -4.637594e-01
## 416 -1.8812604657 -1.848243e+00 -1.8072851838 -1.7586453855 -1.694086e+00
## 417 0.0562274177 9.450008e-02 0.1339155359 0.1759155872 2.254432e-01
## 418 -0.8090009211 -7.624364e-01 -0.7145296542 -0.6679903071 -6.204052e-01
## 419 -1.3805978743 -1.348373e+00 -1.3073522525 -1.2641635959 -1.213336e+00
## 420 -1.1545932627 -1.119066e+00 -1.0720844859 -1.0184666499 -9.606156e-01
## 421 -1.7578669525 -1.714876e+00 -1.6732720455 -1.6291087822 -1.576724e+00
## 422 -1.0233070387 -9.881466e-01 -0.9485018513 -0.9057134800 -8.598038e-01
## 423 -0.3290316867 -2.945765e-01 -0.2489833035 -0.2065955128 -1.603854e-01
## 424 -1.0631032844 -1.031543e+00 -0.9898437714 -0.9445891119 -9.032148e-01
## 425 -0.7862670921 -7.517969e-01 -0.7023913439 -0.6535624136 -6.059696e-01
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## 427 -1.8529102234 -1.821861e+00 -1.7835683966 -1.7394704032 -1.690817e+00
## 428 -0.2617535683 -2.217258e-01 -0.1711841014 -0.1127773435 -4.897206e-02
## 429 -0.5637965298 -5.300214e-01 -0.4913090328 -0.4357467741 -3.779918e-01
## 430 -1.0051433228 -9.692820e-01 -0.9326120777 -0.8954367218 -8.430703e-01
## 431 -2.2341941079 -2.195979e+00 -2.1603119727 -2.1200731193 -2.076801e+00
## 432 -2.1160571694 -2.075446e+00 -2.0334041458 -1.9925013704 -1.945428e+00
## 433 -0.7594255572 -7.209718e-01 -0.6768668522 -0.6272286302 -5.842377e-01
## 434 -1.3277871469 -1.292040e+00 -1.2469070125 -1.2136430936 -1.170568e+00
## 435 -1.4590342721 -1.416033e+00 -1.3716392296 -1.3277595837 -1.280466e+00
## 436 -1.7185558039 -1.672043e+00 -1.6229961614 -1.5730295693 -1.510572e+00
## 437 0.2952034373 3.308962e-01 0.3700243414 0.4205030742 4.666918e-01
## 438 -0.8565741847 -8.146180e-01 -0.7781712358 -0.7356442170 -6.893192e-01
## 439 -0.2612487577 -2.272443e-01 -0.1913497331 -0.1486360608 -1.070204e-01
## 440 -1.9223169554 -1.892240e+00 -1.8421206647 -1.7895660564 -1.736502e+00
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## 446 0.5930492451 6.299824e-01 0.6715844541 0.7162251166 7.633391e-01
## 447 -2.1640890952 -2.127305e+00 -2.0854541485 -2.0391129714 -1.983986e+00
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## 449 -0.3981888053 -3.585062e-01 -0.3155825654 -0.2728252362 -2.258099e-01
## 450 -0.9550129069 -9.065421e-01 -0.8546192413 -0.8033740141 -7.538379e-01

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## 451 -1.4390647078 -1.404072e+00 -1.3612029464 -1.3239047254 -1.275910e+00
## 452 -2.3798783239 -2.341908e+00 -2.2883303619 -2.2599520415 -2.212441e+00
## 453 -0.1776432625 -1.418904e-01 -0.0930033666 -0.0367530305 2.291498e-02
## 454 -2.6218317820 -2.585466e+00 -2.5359889337 -2.4764987047 -2.411602e+00
## 455 -1.3773110982 -1.337658e+00 -1.2910888761 -1.2398911312 -1.185204e+00
## 456 0.8706621404 9.240016e-01 0.9804352606 1.0351389410 1.086884e+00
## 457 -0.9985218990 -9.549996e-01 -0.9045895010 -0.8521183728 -8.000942e-01
## 458 -2.2463696513 -2.205320e+00 -2.1632463046 -2.1176242251 -2.070238e+00
## 459 -1.3591355374 -1.317877e+00 -1.2710266026 -1.2227171073 -1.174486e+00
## 460 -0.2565031047 -2.041746e-01 -0.1660858105 -0.1262295849 -7.111102e-02
## 461 -1.2216525185 -1.184815e+00 -1.1444213623 -1.0989852344 -1.045432e+00
## 462 -1.5805663668 -1.532947e+00 -1.4803272809 -1.4347162863 -1.378892e+00
## 463 -0.6922268022 -6.524046e-01 -0.5762594364 -0.5070105368 -4.450266e-01
## 464 -0.7948233333 -7.570469e-01 -0.7058046123 -0.6451987821 -5.792275e-01
## 465 1.3091183087 1.356155e+00 1.4086017625 1.4617345986 1.513850e+00
## 466 -0.3902641026 -3.589367e-01 -0.3126201540 -0.2637100491 -2.136315e-01
## 467 -3.0963904836 -3.059507e+00 -3.0195500377 -2.9786345976 -2.934366e+00
## 468 -1.5091997625 -1.473353e+00 -1.4180031447 -1.3625722329 -1.308992e+00
## 469 -1.0295139993 -9.940846e-01 -0.9528451034 -0.9041834122 -8.475465e-01
## 470 -2.8050676820 -2.764049e+00 -2.7217461999 -2.6789946356 -2.628113e+00
## 471 -2.9831780337 -2.941666e+00 -2.8910236001 -2.8340220612 -2.792233e+00
## 472 -3.5468148335 -3.513950e+00 -3.4730393285 -3.4245000866 -3.369053e+00
## 473 1.3145728929 1.356622e+00 1.4062988002 1.4603899337 1.506627e+00
## 474 -1.9229868426 -1.886819e+00 -1.8354064181 -1.7858043578 -1.736077e+00
## 475 -1.5168377811 -1.467869e+00 -1.4191468017 -1.3724168924 -1.325223e+00
## 476 -0.6509992307 -6.164703e-01 -0.5752992103 -0.5306518194 -4.840791e-01
## 477 -1.1198171180 -1.079610e+00 -1.0366346405 -0.9899334298 -9.285448e-01
## 478 -0.7572434377 -7.199609e-01 -0.6734692600 -0.6240859506 -5.686363e-01
## 479 -1.9486207597 -1.919900e+00 -1.8771180544 -1.8334542931 -1.789564e+00
## 480 -2.3682995136 -2.345754e+00 -2.3039829849 -2.2570150201 -2.210510e+00
## 481 0.9642245365 9.938114e-01 1.0309567736 1.0736796566 1.119688e+00
## 482 -1.4658063774 -1.423659e+00 -1.3778849881 -1.3280610214 -1.272365e+00
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## 484 -0.2141453209 -1.835232e-01 -0.1313860922 -0.0845355076 -3.382479e-02
## 485 0.5862369753 6.213678e-01 0.6664473363 0.7094756817 7.608258e-01
## 486 -0.4368789320 -4.039254e-01 -0.3514812901 -0.2996054924 -2.459828e-01
## 487 0.9989970973 1.037534e+00 1.0794007168 1.1216039319 1.163723e+00
## 488 -0.7695591387 -7.287229e-01 -0.6846882288 -0.6409173559 -5.977929e-01
## 489 -0.9404103655 -9.102317e-01 -0.8699505702 -0.8320455285 -7.890117e-01
## 490 0.9799543289 1.007753e+00 1.0487407549 1.0969742951 1.146212e+00
## 491 -0.9021223234 -8.650480e-01 -0.8213500600 -0.7746253961 -7.242289e-01
## 492 -1.0165210097 -9.750674e-01 -0.9272315616 -0.8772334976 -8.272805e-01
## 493 -2.1058733254 -2.067424e+00 -2.0257211160 -1.9795023051 -1.930734e+00
## 494 0.4007611094 4.460140e-01 0.4937822676 0.5406178328 5.874935e-01
## 495 -1.0369908820 -9.913884e-01 -0.9442454194 -0.8902223112 -8.298120e-01
## 496 -1.5627407472 -1.528643e+00 -1.4802643104 -1.4358499209 -1.389159e+00
## 497 -1.1133610084 -1.070784e+00 -1.0203037860 -0.9831934525 -9.416196e-01
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## 504 -1.2531121915 -1.213064e+00 -1.1681187805 -1.1167221113 -1.065171e+00

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## 505 -0.9160555610 -8.727122e-01 -0.8218880898 -0.7685447104 -7.133080e-01
## 506 -0.4227818375 -3.828872e-01 -0.3315492722 -0.2809826615 -2.268003e-01
## 507 -0.7237549755 -6.860983e-01 -0.6386589833 -0.5924574463 -5.450095e-01
## 508 -1.1921338029 -1.151288e+00 -1.1043177685 -1.0578011817 -1.013501e+00
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## 513 -1.3608873758 -1.319344e+00 -1.2752500890 -1.2289222446 -1.179019e+00
## 514 -1.4878553402 -1.445069e+00 -1.3910329865 -1.3312292514 -1.269280e+00
## 515 -2.2047444287 -2.167342e+00 -2.1259143677 -2.0725961333 -2.025929e+00
## 516 -2.0501475727 -2.006620e+00 -1.9597440556 -1.9031060222 -1.848731e+00
## 517 -1.9825177706 -1.934154e+00 -1.8756621997 -1.8289156476 -1.784720e+00
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## 519 -1.9958422341 -1.957845e+00 -1.9141305008 -1.8669181824 -1.817130e+00
## 520 -0.3603007231 -3.260000e-01 -0.2855689734 -0.2388952125 -1.864075e-01
## 521 -2.4926999486 -2.462314e+00 -2.4240090131 -2.3801864416 -2.332536e+00
## 522 -1.0613908718 -1.019402e+00 -0.9736321875 -0.9263446991 -8.760832e-01
## 523 0.3464448056 3.792525e-01 0.4140397602 0.4559944730 5.107426e-01
## 524 -0.4973813521 -4.485647e-01 -0.3968093017 -0.3470592116 -2.983313e-01
## 525 -1.6295077272 -1.599744e+00 -1.5633189340 -1.5196201701 -1.468701e+00
## 526 -2.0540186856 -2.011087e+00 -1.9630574880 -1.8945591781 -1.826371e+00
## 527 -1.1657514809 -1.128795e+00 -1.0891967113 -1.0501522323 -1.008707e+00
## 528 -1.3516813842 -1.314906e+00 -1.2759323741 -1.2348187747 -1.183686e+00
## 529 0.4119267177 4.463002e-01 0.4865163613 0.5346557350 5.895355e-01
## 530 -0.4812294330 -4.283378e-01 -0.3686032055 -0.3025174626 -2.722471e-01
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## 536 -1.6490702383 -1.611166e+00 -1.5601576193 -1.5011367144 -1.438006e+00
## 537 -0.8431967020 -8.050456e-01 -0.7570339184 -0.7037101832 -6.482758e-01
## 538 -1.3324697565 -1.291399e+00 -1.2314390515 -1.1802773335 -1.121050e+00
## 539 0.5796134481 6.248507e-01 0.6753964220 0.7327107438 7.842852e-01
## 540 -1.0669169259 -1.023660e+00 -0.9695793062 -0.9429553779 -8.940242e-01
## 541 -0.7989047781 -7.671598e-01 -0.7300336416 -0.6934067642 -6.455930e-01
## 542 -3.0975451709 -3.055182e+00 -3.0107302745 -2.9677495913 -2.926418e+00
## 543 -1.3423669108 -1.307976e+00 -1.2699138712 -1.2238709786 -1.179928e+00
## 544 -1.5475156290 -1.504628e+00 -1.4589806697 -1.4090133650 -1.358844e+00
## 545 0.0975729740 1.401759e-01 0.1857628021 0.2314371679 2.767105e-01
## 546 -1.1467685202 -1.104202e+00 -1.0628192761 -1.0162283242 -9.741180e-01
## 547 -0.7656822720 -7.281319e-01 -0.6753012571 -0.6236624373 -5.672584e-01
## 548 -0.0225664785 1.808075e-02 0.0604126495 0.1044758939 1.597767e-01
## 549 -1.0070583974 -9.690035e-01 -0.9250930777 -0.8930120050 -8.477945e-01
## 550 -0.7014712467 -6.852207e-01 -0.6476828561 -0.5959889673 -5.386720e-01
## 551 -0.5025820330 -4.652048e-01 -0.4088886380 -0.3484954418 -2.864934e-01
## 552 0.3894537168 4.323309e-01 0.4801628948 0.5311717311 5.851451e-01
## 553 -2.3023069706 -2.266534e+00 -2.2271256030 -2.1835741299 -2.142339e+00
## 554 -1.8928781426 -1.853296e+00 -1.8014052442 -1.7532614310 -1.688259e+00
## 555 -0.1185223700 -8.361857e-02 -0.0393858256 0.0117375774 6.574650e-02
## 556 0.1813271891 2.259095e-01 0.2729798647 0.3198813314 3.761762e-01
## 557 -1.0323872717 -9.961639e-01 -0.9410134384 -0.8934138650 -8.394885e-01
## 558 -0.9033777542 -8.613807e-01 -0.8139771546 -0.7643789378 -7.146385e-01

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## 559 -0.8822342670 -8.365569e-01 -0.7866819840 -0.7365051604 -6.861819e-01
## 560 -3.3055662801 -3.268558e+00 -3.2254342582 -3.1748841406 -3.132262e+00
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## 563 -0.1451852498 -1.117809e-01 -0.0719421600 -0.0251710158 2.729825e-02
## 564 -0.2356892277 -2.007362e-01 -0.1576925110 -0.1069413384 -5.206609e-02
## 565 -0.8615420210 -8.287903e-01 -0.7779815109 -0.7247750449 -6.698085e-01
## 566 -1.0090773538 -9.729095e-01 -0.9415033443 -0.9089825247 -8.598880e-01
## 567 -0.8688318264 -8.359618e-01 -0.7938834174 -0.7525618041 -7.090101e-01
## 568 0.8464054932 8.874385e-01 0.8990897730 0.9430457842 9.887190e-01
## 569 -0.4696170130 -4.329383e-01 -0.3946885200 -0.3427518746 -2.921839e-01
## 570 -0.2453470470 -2.095824e-01 -0.1688278414 -0.1178789396 -6.437954e-02
## 571 -2.0950515083 -2.054103e+00 -2.0142224016 -2.0272275056 -1.986950e+00
## 572 0.1319314726 1.717777e-01 0.2291814646 0.2897759703 3.515170e-01
## 573 0.3263172399 3.590114e-01 0.4074271135 0.4530419383 4.993574e-01
## 574 -2.5950116608 -2.551459e+00 -2.5118744848 -2.4639744895 -2.412378e+00
## 575 -0.0069107831 2.655089e-02 0.0682530688 0.1274241449 1.906143e-01
## 576 0.2555848589 2.904554e-01 0.3285190772 0.3771009925 4.204107e-01
## 577 -1.5570260107 -1.520380e+00 -1.4792797044 -1.4371110313 -1.395084e+00
## 578 -2.8089403330 -2.780605e+00 -2.7388960924 -2.6986263545 -2.656944e+00
## 579 0.1866489982 2.314897e-01 0.2825188637 0.3347687649 3.978987e-01
## 580 -1.1145011898 -1.074664e+00 -1.0323178294 -0.9819370758 -9.250233e-01
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## 583 -0.8178293787 -7.788511e-01 -0.7238662504 -0.6678333055 -6.105755e-01
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## 586 0.2164995433 2.484859e-01 0.2830489524 0.3267488288 3.806478e-01
## 587 -0.9746589990 -9.360996e-01 -0.8909369629 -0.8252986868 -7.710583e-01
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## 589 -0.1769123174 -1.279634e-01 -0.0765474610 -0.0271118107 1.902812e-02
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## 595 -2.4569007091 -2.422553e+00 -2.3847166156 -2.3409226313 -2.290197e+00
## 596 -2.3914152411 -2.362162e+00 -2.3290720410 -2.2924069898 -2.254546e+00
## 597 0.6138750983 6.548549e-01 0.6979742249 0.7486439945 7.976147e-01
## 598 -1.8675642865 -1.838818e+00 -1.7927210050 -1.7486824488 -1.696233e+00
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## 609 -1.1823090495 -1.144365e+00 -1.1045711971 -1.0555697958 -1.004625e+00
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## 618 0.6475360179 6.844831e-01 0.7262862204 0.7785727359 8.296667e-01
## 619 -0.6027958097 -5.583963e-01 -0.5108136968 -0.4530717317 -3.967901e-01
## 620 -0.3697291543 -3.406545e-01 -0.3058824194 -0.2654155558 -2.191648e-01
## 621 -0.6972610581 -6.539320e-01 -0.6074719497 -0.5569730729 -4.939375e-01
## 622 0.3631754109 4.052544e-01 0.4511290084 0.4999363914 5.547052e-01
## 623 0.3463686544 3.794865e-01 0.4159964663 0.4634866160 5.111157e-01
## 624 -0.0190888304 1.704427e-02 0.0572512491 0.1051961245 1.513656e-01
## 625 -0.0323718882 9.685469e-03 0.0512727421 0.0998336444 1.352985e-01
## 626 -1.4519899926 -1.410341e+00 -1.3655633733 -1.3166924716 -1.265582e+00
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## 628 0.0038375415 3.405485e-02 0.0779857762 0.1233133164 1.695724e-01
## 629 -1.5883094603 -1.550720e+00 -1.4962770748 -1.4417745604 -1.389231e+00
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## 649 -0.0402563342 1.745146e-03 0.0488052642 0.1108338276 1.730910e-01
## 650 -1.1648101890 -1.133427e+00 -1.0968818628 -1.0513855662 -9.959833e-01
## 651 0.2305324845 2.562321e-01 0.2880689690 0.3266186613 3.719409e-01
## 652 -0.0206418415 1.242800e-02 0.0493071211 0.0869354868 1.257569e-01
## 653 -1.0961729048 -1.055740e+00 -1.0202364201 -0.9842781445 -9.443739e-01
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## 671 0.2724657591 3.111857e-01 0.3543338746 0.3995943096 4.460516e-01
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## 673 -0.6376729235 -6.004076e-01 -0.5622523715 -0.5166006718 -4.735364e-01
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## 675 -1.3354574535 -1.297322e+00 -1.2535751417 -1.2051047367 -1.151492e+00
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## 677 -1.4983663416 -1.454622e+00 -1.4077503243 -1.3569760473 -1.304678e+00
## 678 -0.5426289685 -5.093225e-01 -0.4551316372 -0.4032614434 -3.543676e-01
## 679 -2.5931280352 -2.556787e+00 -2.5098403967 -2.4554254155 -2.396025e+00
## 680 -2.3209423717 -2.275494e+00 -2.2263551015 -2.1765607064 -2.125289e+00
## 681 -0.5569369596 -5.161038e-01 -0.4686620308 -0.4095100665 -3.489645e-01
## 682 -0.7599569423 -7.256844e-01 -0.6832351378 -0.6348467634 -5.841391e-01
## 683 -1.7040784843 -1.669759e+00 -1.6382997660 -1.5990989598 -1.553681e+00
## 684 -1.0219114636 -9.845939e-01 -0.9448023649 -0.9014187386 -8.528997e-01
## 685 -0.5951533757 -5.655452e-01 -0.5338564280 -0.4986244940 -4.574393e-01
## 686 -0.3508180864 -3.061990e-01 -0.2565343168 -0.2087200246 -1.592016e-01
## 687 -1.6493761003 -1.604441e+00 -1.5553339712 -1.5053108783 -1.453624e+00
## 688 -0.4214615014 -3.732749e-01 -0.3265475409 -0.2797527913 -2.277231e-01
## 689 -1.1457883098 -1.103121e+00 -1.0555157742 -1.0091710669 -9.604496e-01
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## 691 -1.5064098911 -1.471332e+00 -1.4291424737 -1.3798992538 -1.328052e+00
## 692 0.1901328535 2.202979e-01 0.2530847307 0.2948117347 3.428986e-01
## 693 -1.2666521915 -1.232415e+00 -1.1931294461 -1.1514504331 -1.107557e+00
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## 699 -0.7631638652 -7.269838e-01 -0.6862471635 -0.6451984627 -6.014294e-01
## 700 -1.3030816153 -1.265068e+00 -1.2250137962 -1.1825139717 -1.130122e+00
## 701 -0.2514713562 -2.096421e-01 -0.1601256201 -0.1086949971 -5.326697e-02
## 702 0.2618713713 3.064940e-01 0.3567718392 0.4074790375 4.584647e-01
## 703 -2.8934023608 -2.843196e+00 -2.7910324399 -2.7307310238 -2.679471e+00
## 704 0.5135377839 5.519697e-01 0.5938321669 0.6380270455 6.926326e-01
## 705 0.2985316004 3.270508e-01 0.3600983453 0.4010153021 4.510947e-01
## 706 -1.7038016282 -1.668767e+00 -1.6306146183 -1.5916695754 -1.550961e+00
## 707 0.1834972015 2.212742e-01 0.2750690095 0.3237571984 3.779085e-01
## 708 2.0178175468 2.057099e+00 2.1014151253 2.1598240051 2.212985e+00
## 709 -2.0586026815 -2.019241e+00 -1.9693660357 -1.9206066740 -1.866473e+00
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## 716 0.0808484158 1.109843e-01 0.1564417286 0.2043044996 2.536988e-01
## 717 -1.6373604254 -1.600340e+00 -1.5569102078 -1.5114284108 -1.463464e+00
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## 721 -2.6096059327 -2.570961e+00 -2.5284717540 -2.4847334909 -2.438099e+00
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## 737 -0.1109641275 -6.512512e-02 -0.0139338808 0.0399370694 9.528354e-02
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## 742 -0.8313703412 -7.946911e-01 -0.7411951649 -0.6868609830 -6.329159e-01
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## 752 -1.2236089340 -1.180454e+00 -1.1246368198 -1.0720417840 -1.017891e+00
## 753 -0.5252139035 -4.822881e-01 -0.4317994876 -0.3848906947 -3.271241e-01
## 754 -1.9712192497 -1.932995e+00 -1.8840012370 -1.8268836133 -1.765509e+00
## 755 -0.8627841995 -8.279351e-01 -0.7897277133 -0.7446222505 -7.004136e-01
## 756 0.4319222405 4.650729e-01 0.5001815817 0.5383194197 5.916780e-01
## 757 0.0396949318 8.581631e-02 0.1288501611 0.1872763381 2.498559e-01
## 758 -1.4977939928 -1.453466e+00 -1.4031407563 -1.3509857947 -1.289812e+00
## 759 -1.5993508618 -1.547623e+00 -1.4977770568 -1.4531427847 -1.403601e+00
## 760 -1.1026426052 -1.069507e+00 -1.0261219182 -0.9730514756 -9.149787e-01
## 761 -2.2200743594 -2.184832e+00 -2.1460180346 -2.1027706531 -2.059087e+00
## 762 -0.8656763284 -8.343049e-01 -0.7735378700 -0.7245980053 -6.676418e-01
## 763 -0.6749033728 -6.415583e-01 -0.5953154707 -0.5390872644 -4.895889e-01
## 764 -2.1848325948 -2.152719e+00 -2.1169439416 -2.0781202043 -2.035373e+00
## 765 -0.1031471691 -6.335859e-02 -0.0179697739 0.0407242348 9.194218e-02
## 766 0.3702668598 4.122283e-01 0.4599507959 0.5067252124 5.560713e-01
## 767 -1.0046722898 -9.726682e-01 -0.9360579135 -0.8947532419 -8.497000e-01
## 768 -0.4595151970 -4.234443e-01 -0.3902577180 -0.3519450847 -2.988281e-01
## 769 -0.8875091808 -8.521475e-01 -0.8133492687 -0.7671003082 -7.215481e-01
## 770 -0.2136082581 -1.714034e-01 -0.1257440694 -0.0737242546 -2.867227e-02
## 771 0.4413126227 4.722414e-01 0.5191781099 0.5643091856 6.128960e-01
## 772 -0.7405743515 -6.966784e-01 -0.6363954512 -0.5808036313 -5.202806e-01
## 773 0.7722042823 8.203961e-01 0.8706259330 0.9200181168 9.699732e-01
## 774 0.6337447808 6.709531e-01 0.7220865436 0.7714097427 8.196149e-01

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	85	86	87	88	89
## 0	-1.037221077	-1.0248410423	-1.012102e+00	-9.973550e-01	-0.9819553194
## 1	-1.341277069	-1.3391817026	-1.337391e+00	-1.335640e+00	-1.3456469862
## 2	-1.984775594	-1.9843513031	-1.983935e+00	-1.983528e+00	-1.9831285844
## 3	-2.253440762	-2.2438820457	-2.234507e+00	-2.225338e+00	-2.2149817967
## 4	1.364069958	1.3744252257	1.384582e+00	1.394867e+00	1.4051371091
## 5	-0.545045689	-0.5404725272	-5.359871e-01	-5.316006e-01	-0.5250708466
## 6	0.003783753	0.0042939630	4.794382e-03	5.283768e-03	0.0057642826
## 7	-0.453223186	-0.4497100398	-4.462643e-01	-4.426479e-01	-0.4389769959
## 8	-1.470026565	-1.4688515865	-1.467699e+00	-1.466267e+00	-1.4645820252
## 9	-0.502309088	-0.4977872121	-4.936218e-01	-4.900651e-01	-0.4866024155
## 10	-1.075690334	-1.0661474781	-1.055450e+00	-1.044560e+00	-1.0337223700
## 11	0.449038917	0.4537989706	4.584677e-01	4.630335e-01	0.4675164622
## 12	-2.556952947	-2.5549332717	-2.552203e+00	-2.548096e+00	-2.5439821294
## 13	-1.558946743	-1.5588901900	-1.558835e+00	-1.558780e+00	-1.5587272171
## 14	-2.042286378	-2.0347206340	-2.027300e+00	-2.020043e+00	-2.0129177201
## 15	-1.179166417	-1.1755111173	-1.170725e+00	-1.166045e+00	-1.1614489901
## 16	-2.592969584	-2.5884401692	-2.583998e+00	-2.579653e+00	-2.5733543142
## 17	-1.668579195	-1.6680185338	-1.667469e+00	-1.666931e+00	-1.6664028235
## 18	-1.208334360	-1.2069199974	-1.205533e+00	-1.204176e+00	-1.2026035540
## 19	-0.525284049	-0.5214086529	-5.176076e-01	-5.699444e-01	-0.5779687368
## 20	-0.465679957	-0.4645579473	-4.634575e-01	-4.623813e-01	-0.4613245463
## 21	-0.099657249	-0.0998274135	-9.972762e-02	-9.963003e-02	-0.0995342074
## 22	0.433829413	0.4430835314	4.521601e-01	4.611983e-01	0.4701282550
## 23	-0.916689975	-0.9114519965	-9.063145e-01	-9.012903e-01	-0.8942307369
## 24	-0.410211835	-0.4064053927	-4.026720e-01	-3.981201e-01	-0.3928251067
## 25	-2.289645788	-2.2858825930	-2.282192e+00	-2.277645e+00	-2.2727234941
## 26	-0.492323055	-0.4890154721	-4.857714e-01	-4.817187e-01	-0.4769327481
## 27	-0.703053575	-0.6977024578	-6.924540e-01	-6.833947e-01	-0.6742759086
## 28	-0.101125897	-0.0898664313	-7.667948e-02	-6.112206e-02	-0.0443467778
## 29	-1.843216551	-1.8410763669	-1.838977e+00	-1.836372e+00	-1.8337821143
## 30	0.379302236	0.3890328297	4.040921e-01	4.214624e-01	0.4414960566
## 31	-0.446999414	-0.4285234820	-4.115601e-01	-3.982193e-01	-0.3867017264
## 32	-2.199464464	-2.1977437294	-2.196056e+00	-2.193875e+00	-2.1914747677
## 33	0.120044756	0.1309974275	1.417399e-01	1.522456e-01	0.1645925219
## 34	-1.764507024	-1.7644040588	-1.764303e+00	-1.764183e+00	-1.7640639697
## 35	-0.105569128	-0.0945712460	-8.378440e-02	-7.169374e-02	-0.0590717213
## 36	-2.215694639	-2.2084856373	-2.201415e+00	-2.193582e+00	-2.1854449194
## 37	-0.625282001	-0.6226913115	-6.201503e-01	-6.176654e-01	-0.6146813893
## 38	-1.218591252	-1.2109623483	-1.201476e+00	-1.191239e+00	-1.1811327570
## 39	-1.350191206	-1.3434855700	-1.336909e+00	-1.330477e+00	-1.3241613111
## 40	1.172493162	1.1765384855	1.181541e+00	1.188418e+00	1.1952828462
## 41	-0.470941841	-0.4677680784	-4.646552e-01	-4.616110e-01	-0.4586219502
## 42	-3.881065595	-3.8749499506	-3.868952e+00	-3.862915e+00	-3.8569035355
## 43	0.112473661	0.1185126793	1.244358e-01	1.302283e-01	0.1383484641
## 44	0.660821275	0.6712138750	6.829821e-01	6.975100e-01	0.7119466008
## 45	-0.009693102	-0.0035139359	2.546658e-03	8.473616e-03	0.0156374963
## 46	0.214227837	0.2197229458	2.299747e-01	2.400004e-01	0.2498443583
## 47	-1.031119573	-1.0287550651	-1.026436e+00	-1.024168e+00	-1.0219410406
## 48	0.366801743	0.3790138239	3.989503e-01	4.260750e-01	0.4531428095
## 49	-0.000193947	-0.0001311503	-6.955852e-05	-9.324860e-06	-0.0006450526
## 50	-0.553443229	-0.5430596065	-5.320448e-01	-5.196810e-01	-0.5074505233
## 51	-0.803918581	-0.8026124950	-8.013315e-01	-8.000352e-01	-0.7987599155
## 52	-0.498584328	-0.4962927596	-4.940452e-01	-4.918471e-01	-0.4896889321

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## 53   0.868024023  0.8709134671  8.737475e-01  8.765190e-01  0.8796640430
## 54   -1.616385907 -1.6056044347 -1.594105e+00 -1.581972e+00 -1.5692213814
## 55   -1.507554515 -1.5011024712 -1.494774e+00 -1.488586e+00 -1.4783037133
## 56   -3.295516295 -3.2916700892 -3.287898e+00 -3.284208e+00 -3.2785146252
## 57   -1.286752360 -1.2770600882 -1.266064e+00 -1.253884e+00 -1.2410590414
## 58   -1.558294463 -1.5469020939 -1.537672e+00 -1.531292e+00 -1.5324625489
## 59   -0.089485947 -0.0729546590 -5.555345e-02 -3.626035e-02 -0.0171872722
## 60   -2.464275630 -2.4483461860 -2.432722e+00 -2.417443e+00 -2.4024408163
## 61   0.003824980  0.0070243653  1.016236e-02  1.323116e-02  0.0180254055
## 62   -0.499986591 -0.4969141857 -4.939007e-01 -4.909537e-01 -0.4880601484
## 63   -1.377003391 -1.3729229614 -1.368921e+00 -1.365007e+00 -1.3591442559
## 64   -1.321292903 -1.3197012945 -1.318140e+00 -1.316045e+00 -1.3134662678
## 65   -1.870489543 -1.8650805818 -1.859775e+00 -1.854587e+00 -1.8494930717
## 66   -1.901280665 -1.8905386683 -1.880003e+00 -1.867990e+00 -1.8556088752
## 67   -0.193247847 -0.1903619554 -1.875314e-01 -1.836577e-01 -0.1794744290
## 68   -0.990536722 -0.9894151974 -9.883152e-01 -9.872394e-01 -0.9861831946
## 69   -0.592181306 -0.5919327003 -5.916889e-01 -5.914504e-01 -0.5914113837
## 70   0.368553473  0.3721797402  3.757364e-01  3.810801e-01  0.3872351382
## 71   -1.828713284 -1.8265578214 -1.821574e+00 -1.813714e+00 -1.8029314668
## 72   0.476271648  0.4780250379  4.797448e-01  4.821131e-01  0.4847725791
## 73   -1.143802386 -1.1434390614 -1.143083e+00 -1.142734e+00 -1.1424455425
## 74   0.264848035  0.2719937195  2.790023e-01  2.873181e-01  0.2961948425
## 75   -1.553557412 -1.5390935134 -1.524774e+00 -1.511897e+00 -1.4998025823
## 76   -0.432971494 -0.4303126236 -4.277048e-01 -4.251544e-01 -0.4226503064
## 77   -1.253788196 -1.2488562647 -1.244019e+00 -1.235537e+00 -1.2269949592
## 78   -1.114892464 -1.1003003261 -1.086113e+00 -1.072028e+00 -1.0578156021
## 79   -1.216782057 -1.1890890509 -1.161927e+00 -1.135365e+00 -1.1092835210
## 80   -1.683108427 -1.6810946118 -1.679119e+00 -1.677188e+00 -1.6743036089
## 81   0.163630743  0.1684411090  1.731592e-01  1.777732e-01  0.1846495963
## 82   -1.981502426 -1.9801096737 -1.978744e+00 -1.977408e+00 -1.9759690435
## 83   -2.651722576 -2.6494424168 -2.647206e+00 -2.645019e+00 -2.6427404863
## 84   0.126862911  0.1289308044  1.309590e-01  1.340988e-01  0.1372476068
## 85   -0.448985806 -0.4444455572 -4.399924e-01 -4.356375e-01 -0.4308075969
## 86   -0.099784828 -0.0975555450 -9.536904e-02 -9.295194e-02 -0.0903231006
## 87   -2.326951908 -2.3221777386 -2.317495e+00 -2.312916e+00 -2.3084195666
## 88   -2.002788210 -1.9943854258 -1.984176e+00 -1.973248e+00 -1.9624646007
## 89   -1.683248835 -1.6830726105 -1.682900e+00 -1.682731e+00 -1.6825647669
## 90   -0.134105453 -0.1248323975 -1.157373e-01 -1.032421e-01 -0.0907682449
## 91   -0.947057896 -0.9423558491 -9.377440e-01 -9.323894e-01 -0.9256317255
## 92   0.382402280  0.3884198020  3.943219e-01  4.013774e-01  0.4083782025
## 93   -2.539036417 -2.5106575608 -2.482823e+00 -2.455603e+00 -2.4288755527
## 94   -2.668346753 -2.6642911686 -2.659620e+00 -2.653491e+00 -2.6446042388
## 95   -1.027106735 -1.0172482503 -1.007579e+00 -9.981228e-01 -0.9884710964
## 96   -0.771584717 -0.7617652313 -7.494372e-01 -7.360885e-01 -0.7229081698
## 97   0.276029645  0.2817644695  2.893152e-01  3.003911e-01  0.3114767379
## 98   -2.153183222 -2.1463499097 -2.139648e+00 -2.132371e+00 -2.1248733722
## 99   -0.947449806 -0.9444051940 -9.414190e-01 -9.384987e-01 -0.9356312493
## 100  -1.459854680 -1.4542792562 -1.448811e+00 -1.443463e+00 -1.4382120366
## 101  -1.598844750 -1.5898159456 -1.580960e+00 -1.572300e+00 -1.5623074426
## 102  -0.035012861 -0.0294064142 -2.390755e-02 -1.852993e-02 -0.0132497911
## 103  -3.508216763 -3.4928771795 -3.477832e+00 -3.461638e+00 -3.4431087834
## 104  -0.831091339 -0.8229793412 -8.150230e-01 -8.058587e-01 -0.7961869456
## 105  -1.133778869 -1.1327696109 -1.131780e+00 -1.130812e+00 -1.1298611362
## 106  -1.015758404 -1.0101592134 -1.004667e+00 -9.992968e-01 -0.9928752641

```

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## 107 -0.125235118 -0.1276223864 -1.299638e-01 -1.322537e-01 -0.1344349629
## 108 -0.274269556 -0.2657640855 -2.574218e-01 -2.492635e-01 -0.2412530752
## 109 -1.461303238 -1.4526473652 -1.444560e+00 -1.437765e+00 -1.4322256529
## 110 -0.683554351 -0.6802854051 -6.770792e-01 -6.739437e-01 -0.6708649788
## 111 -0.805920237 -0.8039036663 -8.019258e-01 -7.999915e-01 -0.7978681776
## 112 -0.864050253 -0.8612294640 -8.584628e-01 -8.557571e-01 -0.8512771798
## 113 -0.398896359 -0.3777533146 -3.602816e-01 -3.465114e-01 -0.3354702366
## 114 -1.201381610 -1.1872104730 -1.169968e+00 -1.151503e+00 -1.1332815537
## 115 -0.331216150 -0.3287627423 -3.263564e-01 -3.240031e-01 -0.3216925274
## 116 -1.661377969 -1.6603090973 -1.659261e+00 -1.658235e+00 -1.6572288310
## 117 -1.669605276 -1.6682235667 -1.666868e+00 -1.665543e+00 -1.6640805460
## 118 -1.656856624 -1.6507798892 -1.644820e+00 -1.638991e+00 -1.6332679928
## 119 -1.003751501 -0.9925103149 -9.814848e-01 -9.693387e-01 -0.9567489014
## 120 0.073732261 0.0750888733 7.641945e-02 7.772070e-02 0.0789983505
## 121 0.705879994 0.7063696717 7.068500e-01 7.073196e-01 0.7077808218
## 122 -0.711793373 -0.7098038663 -7.078525e-01 -7.059442e-01 -0.7040705198
## 123 -2.305766743 -2.2966358499 -2.287680e+00 -2.278922e+00 -2.2687179579
## 124 -1.567802462 -1.5533416218 -1.539158e+00 -1.525288e+00 -1.5102821817
## 125 -2.172018901 -2.1526594876 -2.133672e+00 -2.113165e+00 -2.0895894026
## 126 -1.393422357 -1.3941055607 -1.394239e+00 -1.394370e+00 -1.3944979993
## 127 -1.005436502 -0.9978555057 -9.904200e-01 -9.831484e-01 -0.9760086393
## 128 -1.083625712 -1.0696496836 -1.054875e+00 -1.040426e+00 -1.0230815084
## 129 -0.382219767 -0.3767414866 -3.712256e-01 -3.657629e-01 -0.3603952698
## 130 -0.375633548 -0.3685534491 -3.616092e-01 -3.548181e-01 -0.3481500663
## 131 -0.542894916 -0.5327266348 -5.212176e-01 -5.070182e-01 -0.4929083498
## 132 0.489624955 0.4906097997 4.915757e-01 4.925204e-01 0.4934479201
## 133 -1.065018253 -1.0598786668 -1.050155e+00 -1.040717e+00 -1.0317010724
## 134 -2.941190299 -2.9372088185 -2.933304e+00 -2.929485e+00 -2.9253048434
## 135 -0.914553415 -0.9062482850 -8.919405e-01 -8.759796e-01 -0.8574161468
## 136 -0.820558787 -0.8040264609 -7.858974e-01 -7.644992e-01 -0.7432797200
## 137 -1.432519891 -1.4320913540 -1.431671e+00 -1.431260e+00 -1.4308563976
## 138 -1.416110643 -1.4087592389 -1.401549e+00 -1.394498e+00 -1.3875740101
## 139 -0.006458970 -0.0041580961 -1.901374e-03 1.254948e-03 0.0048162153
## 140 -0.169893232 -0.1643557831 -1.579701e-01 -1.498957e-01 -0.1418634258
## 141 -0.215927196 -0.2099165948 -2.040213e-01 -1.982561e-01 -0.1902776216
## 142 -2.228793255 -2.2134479253 -2.198397e+00 -2.183678e+00 -2.1673915019
## 143 -0.668232574 -0.6524552190 -6.347540e-01 -6.131749e-01 -0.5917437550
## 144 -1.100480683 -1.0912867601 -1.083916e+00 -1.077496e+00 -1.0712373116
## 145 -3.101512526 -3.0977351001 -3.094030e+00 -3.090407e+00 -3.0868493394
## 146 0.016318567 0.0221937232 2.795614e-02 3.359150e-02 0.0416967851
## 147 0.343299172 0.3492187288 3.564303e-01 3.661773e-01 0.3759010930
## 148 -2.337206578 -2.3337423063 -2.329172e+00 -2.324703e+00 -2.3203141292
## 149 -0.576520320 -0.5592738209 -5.407423e-01 -5.226194e-01 -0.5035751051
## 150 -2.486602494 -2.4794692669 -2.472473e+00 -2.465543e+00 -2.4586964728
## 151 0.823267863 0.8406016773 8.608014e-01 8.820886e-01 0.9045374540
## 152 -1.029414616 -1.0248717699 -1.020416e+00 -1.016059e+00 -1.0117802237
## 153 -2.413601272 -2.4128462507 -2.412106e+00 -2.411382e+00 -2.4106704363
## 154 -0.678624510 -0.6694097096 -6.603717e-01 -6.515330e-01 -0.6417577400
## 155 -3.071656875 -3.0597517325 -3.048060e+00 -3.036371e+00 -3.0243434458
## 156 -2.451149931 -2.4441956880 -2.437375e+00 -2.430704e+00 -2.4205370154
## 157 1.007175189 1.0085428819 1.009884e+00 1.011196e+00 1.0129903442
## 158 -1.578677734 -1.5746055790 -1.570612e+00 -1.566706e+00 -1.5628704681
## 159 -1.406138947 -1.3996434128 -1.393273e+00 -1.385014e+00 -1.3750459546
## 160 -0.691175254 -0.6893054602 -6.874715e-01 -6.848181e-01 -0.6814245730

```

```

## 161 -1.213313681 -1.2116984119 -1.210114e+00 -1.208565e+00 -1.2058302143
## 162 1.433299516 1.4422458250 1.451020e+00 1.459602e+00 1.4680272407
## 163 -1.114823023 -1.1082821635 -1.101867e+00 -1.095593e+00 -1.0894327576
## 164 -0.542467549 -0.5369116228 -5.314623e-01 -5.261332e-01 -0.5180665645
## 165 -0.367303988 -0.3656386470 -3.640053e-01 -3.624079e-01 -0.4768143000
## 166 -1.719911765 -1.7165806629 -1.713313e+00 -1.710118e+00 -1.7064199619
## 167 -0.670357735 -0.6532742871 -6.365187e-01 -6.183826e-01 -0.5997232972
## 168 0.996842278 0.9974817711 9.981090e-01 9.989415e-01 0.9999597265
## 169 -0.040919199 -0.0391075445 -3.733065e-02 -3.559294e-02 -0.0338867292
## 170 -0.729170875 -0.7231670598 -7.172785e-01 -7.109366e-01 -0.7041753041
## 171 -0.864586542 -0.8583813856 -8.522953e-01 -8.463434e-01 -0.8375475944
## 172 -0.746245288 -0.7293232143 -7.140155e-01 -7.027985e-01 -0.6936120112
## 173 -1.044204534 -1.0314213072 -1.018883e+00 -1.003997e+00 -0.9847194925
## 174 -1.007177529 -0.9960894187 -9.842121e-01 -9.706761e-01 -0.9572759019
## 175 0.513981000 0.5259965683 5.377816e-01 5.492895e-01 0.5605878925
## 176 -0.702998012 -0.7003659086 -6.977843e-01 -6.954617e-01 -0.6932794337
## 177 -0.172591915 -0.1669654802 -1.614470e-01 -1.560502e-01 -0.1507512557
## 178 -1.116116803 -1.1150534117 -1.114010e+00 -1.112990e+00 -1.1119889365
## 179 -1.811326063 -1.8083502058 -1.805431e+00 -1.800248e+00 -1.7950261101
## 180 0.735590326 0.7390616999 7.424665e-01 7.457961e-01 0.7496254782
## 181 -2.173253159 -2.1676088424 -2.162073e+00 -2.156659e+00 -2.1489478658
## 182 1.013305392 1.0223136702 1.030790e+00 1.038906e+00 1.0468659850
## 183 -1.246333493 -1.2368718641 -1.225273e+00 -1.212819e+00 -1.2005276124
## 184 -2.016636278 -2.0136470080 -2.010715e+00 -2.007848e+00 -2.0050325486
## 185 -1.291737158 -1.2855478787 -1.279477e+00 -1.273541e+00 -1.2677116541
## 186 -1.727914411 -1.7194639301 -1.711176e+00 -1.703070e+00 -1.6919546540
## 187 -1.553195614 -1.5516356490 -1.550106e+00 -1.548609e+00 -1.5471401526
## 188 -1.003659264 -0.9918902720 -9.790706e-01 -9.657953e-01 -0.9508144412
## 189 -0.594548432 -0.5898528400 -5.853822e-01 -5.811393e-01 -0.5771761453
## 190 -0.684108308 -0.6793873549 -6.747570e-01 -6.666951e-01 -0.6570590291
## 191 0.081648322 0.0874799803 9.319974e-02 9.879337e-02 0.1072985418
## 192 -0.230007136 -0.2267864001 -2.224464e-01 -2.182021e-01 -0.2140347502
## 193 -0.675758318 -0.6679355569 -6.588909e-01 -6.474158e-01 -0.6359988311
## 194 -3.023623728 -3.0195704278 -3.014664e+00 -3.009866e+00 -3.0051542993
## 195 -1.565948778 -1.5649959244 -1.605700e+00 -1.602013e+00 -1.5959138105
## 196 -0.360472742 -0.3420240448 -3.243038e-01 -3.073413e-01 -0.2912118281
## 197 -0.886482527 -0.8777927375 -8.686880e-01 -8.575540e-01 -0.8460755969
## 198 -1.084368959 -1.0819227664 -1.079524e+00 -1.077177e+00 -1.0748733447
## 199 -0.552473483 -0.5508038141 -5.491662e-01 -5.475647e-01 -0.5459921733
## 200 -0.145779055 -0.0932059150 -3.492310e-02 2.617294e-02 0.0792028165
## 201 -1.716355779 -1.6725400270 -1.620269e+00 -1.568724e+00 -1.5183683753
## 202 -0.798517710 -0.7462745490 -6.928912e-01 -6.392483e-01 -0.5857910131
## 203 -1.750567737 -1.6985292528 -1.652444e+00 -1.590831e+00 -1.5359332506
## 204 -2.244471156 -2.1921923619 -2.145748e+00 -2.096277e+00 -2.0374116780
## 205 0.312352183 0.3653996095 4.261724e-01 4.895391e-01 0.5504411264
## 206 0.282359037 0.3224758778 3.674121e-01 4.119614e-01 0.4575521972
## 207 -1.679311283 -1.6218931830 -1.574992e+00 -1.522914e+00 -1.4674051218
## 208 -1.547925566 -1.5118801698 -1.465863e+00 -1.411312e+00 -1.3455378599
## 209 -2.234619056 -2.1789807692 -2.129858e+00 -2.073105e+00 -2.0099987208
## 210 -1.160578899 -1.1239206175 -1.089932e+00 -1.041635e+00 -0.9866176921
## 211 -1.002387549 -0.9546445648 -9.115006e-01 -8.643154e-01 -0.8137750964
## 212 -0.183704401 -0.1357474275 -9.276053e-02 -3.748130e-02 0.0017135022
## 213 -0.548962301 -0.5029689893 -4.535114e-01 -4.074782e-01 -0.3500682104
## 214 -0.202189965 -0.1570986022 -9.785308e-02 -3.518768e-02 0.0242993345

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## 215 -0.487838323 -0.4229279552 -3.662589e-01 -3.046234e-01 -0.2414333610
## 216 1.321349624 1.3889045741 1.451524e+00 1.507452e+00 1.5740833607
## 217 -1.285797075 -1.2404295809 -1.196495e+00 -1.140099e+00 -1.0766208345
## 218 -0.538897192 -0.4836821918 -4.348277e-01 -3.736197e-01 -0.3143148578
## 219 -0.550309562 -0.4980653124 -4.465075e-01 -3.842816e-01 -0.3064590857
## 220 0.102023605 0.1246688974 1.830059e-01 2.401010e-01 0.2986695739
## 221 -2.118419960 -2.0733263479 -2.013629e+00 -1.961819e+00 -1.9049302761
## 222 1.678181194 1.7229660419 1.770434e+00 1.816962e+00 1.8710358676
## 223 -0.908010646 -0.8608243395 -8.074608e-01 -7.472046e-01 -0.6803954689
## 224 -1.658514043 -1.6105451439 -1.558022e+00 -1.503898e+00 -1.4507285869
## 225 -1.242052038 -1.1849598427 -1.124019e+00 -1.061630e+00 -0.9995364519
## 226 -0.619925383 -0.5604651373 -4.936790e-01 -4.212376e-01 -0.3585072108
## 227 0.396613974 0.4448438755 4.921483e-01 5.524579e-01 0.6100263303
## 228 0.371937539 0.4061109761 4.462047e-01 4.913161e-01 0.5349521069
## 229 -2.194322575 -2.1326821396 -2.064017e+00 -1.988794e+00 -1.9153717401
## 230 -1.440624242 -1.3884542367 -1.326591e+00 -1.264499e+00 -1.2073456512
## 231 0.324746257 0.3779044760 4.311289e-01 4.823479e-01 0.5384210206
## 232 0.375630451 0.4378741837 4.970761e-01 5.600189e-01 0.6166110934
## 233 -0.915413792 -0.8720985060 -8.219772e-01 -7.693274e-01 -0.7175979712
## 234 -1.503401327 -1.4542211463 -1.397729e+00 -1.328337e+00 -1.2717287735
## 235 1.626947744 1.6733334003 1.724792e+00 1.763505e+00 1.8068041919
## 236 -0.971477317 -0.9255474660 -8.623946e-01 -8.026744e-01 -0.7459067469
## 237 -0.584578494 -0.5285412007 -4.756432e-01 -4.292075e-01 -0.3665129445
## 238 -0.329902115 -0.3219985150 -2.886836e-01 -2.348087e-01 -0.1681733263
## 239 -1.439011560 -1.3662693684 -1.336654e+00 -1.288128e+00 -1.2229067079
## 240 -1.407929266 -1.3544025562 -1.302686e+00 -1.253416e+00 -1.2058742818
## 241 -0.026966268 0.0234364743 7.926992e-02 1.363390e-01 0.1937759019
## 242 -2.541655115 -2.4922980722 -2.433928e+00 -2.371383e+00 -2.3044163477
## 243 -2.093775629 -2.0500991732 -1.994455e+00 -1.949060e+00 -1.8986539488
## 244 -0.880043698 -0.8269847624 -7.681036e-01 -7.129307e-01 -0.6512047662
## 245 -0.997274320 -0.9447003554 -8.867396e-01 -8.255898e-01 -0.7633267043
## 246 -0.111822059 -0.0598716391 1.498761e-03 6.768736e-02 0.1346467308
## 247 -0.561286805 -0.5066146941 -4.444201e-01 -3.814378e-01 -0.3194496173
## 248 -0.904007269 -0.8496752515 -7.929205e-01 -7.254507e-01 -0.6563100645
## 249 -2.166261865 -2.1237963192 -2.094622e+00 -2.043541e+00 -1.9877964412
## 250 -0.714790834 -0.6722933453 -6.187546e-01 -5.517844e-01 -0.4790359324
## 251 -1.342858476 -1.2912927871 -1.232759e+00 -1.175988e+00 -1.1095268393
## 252 -0.988806074 -0.9284317894 -8.555733e-01 -7.807602e-01 -0.7005238303
## 253 -0.616727955 -0.5584513483 -4.957662e-01 -4.351109e-01 -0.3668934141
## 254 -0.573674369 -0.5321896315 -4.878550e-01 -4.394138e-01 -0.3829794317
## 255 -0.928714788 -0.8643131877 -8.096089e-01 -7.637868e-01 -0.7068111428
## 256 0.252536581 0.3029897520 3.688724e-01 4.215738e-01 0.4834847402
## 257 -0.784725597 -0.7475350974 -7.094801e-01 -6.692380e-01 -0.6259127539
## 258 -0.513265030 -0.4497918322 -3.889953e-01 -3.336494e-01 -0.2663945156
## 259 -2.011228274 -1.9593370742 -1.912243e+00 -1.866302e+00 -1.8162499999
## 260 0.038169511 0.0886976909 1.391998e-01 1.963857e-01 0.2466641696
## 261 -1.318530160 -1.2547779424 -1.191366e+00 -1.135390e+00 -1.0664184989
## 262 -2.375727629 -2.3292092644 -2.279098e+00 -2.215277e+00 -2.1428788970
## 263 0.308674003 0.3439359280 3.853784e-01 4.237224e-01 0.4730549096
## 264 -0.652342628 -0.6036477090 -5.376332e-01 -4.762568e-01 -0.4054831729
## 265 1.327409596 1.3721834804 1.410079e+00 1.466864e+00 1.5277259097
## 266 -0.415964390 -0.3702723984 -3.148887e-01 -2.503146e-01 -0.1836340398
## 267 -1.417161015 -1.3636788208 -1.306803e+00 -1.250388e+00 -1.1883221835
## 268 1.362185167 1.4002046245 1.440726e+00 1.488251e+00 1.5410525917

```

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## 269  0.365091358  0.4091798219  4.562034e-01  5.084373e-01  0.5642524758
## 270  0.924227346  0.9714946711  1.011130e+00  1.071182e+00  1.1423184021
## 271  0.176280038  0.2205970756  2.832976e-01  3.401673e-01  0.3900273437
## 272 -2.171116285 -2.1167074261 -2.049344e+00 -1.976943e+00 -1.9060472261
## 273 -1.147191708 -1.0973294408 -1.036263e+00 -9.843359e-01 -0.9160419915
## 274 -0.742365856 -0.6799723434 -6.166316e-01 -5.603231e-01 -0.5073055903
## 275 -2.077146708 -2.0338003667 -1.982713e+00 -1.929675e+00 -1.8791979835
## 276  1.542499599  1.5993460619  1.667865e+00  1.740410e+00  1.8103568948
## 277 -2.286892756 -2.2478037406 -2.198339e+00 -2.141519e+00 -2.0810055651
## 278 -0.803558368 -0.7586979861 -6.950331e-01 -6.428617e-01 -0.5822876827
## 279 -0.675829285 -0.6282314168 -5.637109e-01 -4.917542e-01 -0.4222835524
## 280 -0.576871141 -0.5227009522 -4.712283e-01 -4.184492e-01 -0.3609894017
## 281 -1.028425422 -0.9868436809 -9.244012e-01 -8.822275e-01 -0.8362981485
## 282 -2.611049894 -2.5606736658 -2.491979e+00 -2.434891e+00 -2.3761475230
## 283  1.037859841  1.0911813355  1.144775e+00  1.211500e+00  1.2863190798
## 284 -1.506197757 -1.4549730729 -1.400804e+00 -1.348323e+00 -1.2990655928
## 285  0.700498621  0.7582590001  8.276935e-01  9.059432e-01  0.9848175728
## 286 -1.245082168 -1.1942149572 -1.132593e+00 -1.081881e+00 -1.0375342933
## 287 -0.417736485 -0.3791007824 -3.364890e-01 -2.768886e-01 -0.2153921597
## 288 -0.447883168 -0.4062211438 -3.559294e-01 -3.047485e-01 -0.2488698135
## 289 -0.015945932  0.0197388418  6.369917e-02  1.200953e-01  0.1711529680
## 290  0.438865985  0.5060754376  5.612971e-01  5.751455e-01  0.6360370808
## 291 -0.570608889 -0.4942047718 -4.101755e-01 -3.264556e-01 -0.2485257443
## 292 -1.598204712 -1.5602319792 -1.508470e+00 -1.450150e+00 -1.3928071941
## 293  0.891017084  0.9404187217  9.921207e-01  1.048966e+00  1.0976360788
## 294 -0.397827201 -0.3434485907 -2.889409e-01 -2.310513e-01 -0.1712998252
## 295 -2.077393285 -2.0356327904 -1.991333e+00 -1.946334e+00 -1.9020989751
## 296 -0.621460510 -0.5702363981 -5.152329e-01 -4.581596e-01 -0.4007322014
## 297 -2.307692522 -2.2695921157 -2.212179e+00 -2.160872e+00 -2.1023152434
## 298  1.683762718  1.7248319115  1.758329e+00  1.798144e+00  1.8484952008
## 299 -0.928169949 -0.8774293845 -8.241248e-01 -7.784321e-01 -0.7150610633
## 300 -0.734745102 -0.6801362100 -6.226725e-01 -5.722258e-01 -0.5226069656
## 301 -2.096768243 -2.0439687166 -1.992896e+00 -1.933335e+00 -1.8701736023
## 302 -1.076307794 -1.0198030128 -9.608823e-01 -9.010361e-01 -0.8416331293
## 303 -1.728545567 -1.6814191481 -1.614153e+00 -1.560789e+00 -1.5079538325
## 304 -2.116786851 -2.0553556702 -1.987716e+00 -1.910516e+00 -1.8332031351
## 305 -0.335273989 -0.2854932411 -2.312685e-01 -1.751753e-01 -0.1153885756
## 306  0.528179928  0.5737609268  6.246417e-01  6.717007e-01  0.7301602517
## 307 -0.811684799 -0.7602378239 -7.109819e-01 -6.457708e-01 -0.5856356620
## 308 -0.305016892 -0.2414128371 -1.878295e-01 -1.263568e-01 -0.0662414038
## 309 -0.071124610 -0.0210446528  4.092771e-02  1.045517e-01  0.1612696779
## 310 -0.859059634 -0.8122116562 -7.669691e-01 -7.178231e-01 -0.6654873678
## 311  1.012755616  1.0624739389  1.111393e+00  1.163056e+00  1.2232023258
## 312 -1.785509946 -1.7073947395 -1.667892e+00 -1.616102e+00 -1.5519015106
## 313  0.302527393  0.3552444488  4.064329e-01  4.555655e-01  0.5025866681
## 314  1.010269964  1.0534134022  1.098692e+00  1.150379e+00  1.2064447712
## 315 -0.210194860 -0.1642250197 -1.135021e-01 -6.362965e-02 -0.0144154563
## 316 -0.674925722 -0.6162337502 -5.702463e-01 -5.217138e-01 -0.4635675551
## 317 -1.485261456 -1.4321108722 -1.378962e+00 -1.320580e+00 -1.2606196323
## 318 -0.175024237 -0.1192912551 -5.946365e-02  6.010101e-03  0.0809751080
## 319 -0.829135951 -0.7838072209 -7.518288e-01 -6.954405e-01 -0.6456506133
## 320 -1.781938143 -1.7308968402 -1.681982e+00 -1.626232e+00 -1.5640458254
## 321 -0.412921233 -0.3703208787 -3.212359e-01 -2.768253e-01 -0.2328193743
## 322 -0.322221774 -0.2527599488 -1.774373e-01 -1.025215e-01 -0.0276289367

```

```

## 323 -0.309603890 -0.2533155938 -1.714649e-01 -7.824077e-02 0.0092645497
## 324 -1.380029717 -1.3279024786 -1.265325e+00 -1.205305e+00 -1.1389313835
## 325 -1.593860267 -1.5258600781 -1.477905e+00 -1.440547e+00 -1.3888600543
## 326 0.532917584 0.5802452172 6.393959e-01 6.976338e-01 0.7620443492
## 327 1.866709456 1.9043505916 1.936062e+00 1.981644e+00 2.0392396788
## 328 -2.306823950 -2.2490948914 -2.191158e+00 -2.128242e+00 -2.0581301168
## 329 -1.871629494 -1.8275378860 -1.783860e+00 -1.729434e+00 -1.6679179237
## 330 -1.660368222 -1.6150262245 -1.566410e+00 -1.510745e+00 -1.4486472169
## 331 -1.010856698 -0.9551613584 -9.075868e-01 -8.566486e-01 -0.7989879892
## 332 -1.657631849 -1.5800766449 -1.511958e+00 -1.444415e+00 -1.3619904120
## 333 -0.399041611 -0.3431743888 -2.626896e-01 -1.693645e-01 -0.0744942298
## 334 -0.039440681 0.0012683604 5.562115e-02 1.050646e-01 0.1582191581
## 335 -1.844510972 -1.8016785966 -1.763750e+00 -1.714593e+00 -1.6555884944
## 336 -0.134798111 -0.0834996771 -2.346822e-02 3.168381e-02 0.0947547639
## 337 -0.811908590 -0.7694408845 -7.186350e-01 -6.938350e-01 -0.6603211804
## 338 -2.773567559 -2.7099473056 -2.660377e+00 -2.590362e+00 -2.5256422682
## 339 -0.079218587 -0.0243696473 2.572912e-02 1.071121e-01 0.1808329158
## 340 -0.926579282 -0.8840437579 -8.267555e-01 -7.642953e-01 -0.7040183541
## 341 -1.268581147 -1.2350270885 -1.198232e+00 -1.157729e+00 -1.1130063316
## 342 -1.857656114 -1.8139636968 -1.767357e+00 -1.720763e+00 -1.6722701243
## 343 -0.350060922 -0.3281130358 -2.661470e-01 -2.066759e-01 -0.1616393638
## 344 -1.301204749 -1.2469424327 -1.186025e+00 -1.119472e+00 -1.0476266807
## 345 -0.444033766 -0.3865732399 -3.341822e-01 -2.730600e-01 -0.2138233321
## 346 -0.728038771 -0.6839920049 -6.318975e-01 -5.756356e-01 -0.5171098930
## 347 -2.237198787 -2.1903352751 -2.147362e+00 -2.100931e+00 -2.0529463484
## 348 1.002870592 1.0500902294 1.112224e+00 1.165358e+00 1.2209384329
## 349 -1.292698234 -1.2420887797 -1.193408e+00 -1.140979e+00 -1.0897478332
## 350 -0.658368882 -0.6110457572 -5.538350e-01 -4.942934e-01 -0.4402853067
## 351 -0.494929711 -0.4940606567 -4.442829e-01 -3.778142e-01 -0.3118297710
## 352 -1.049715787 -0.9957438749 -9.453942e-01 -8.866379e-01 -0.8308507332
## 353 -1.119223410 -1.0587129049 -9.888961e-01 -9.199499e-01 -0.8604517522
## 354 -1.351252267 -1.3244926113 -1.286594e+00 -1.239275e+00 -1.1854316948
## 355 -0.364439361 -0.2965472249 -2.309541e-01 -1.683375e-01 -0.0899151937
## 356 -0.799547533 -0.7563826984 -7.103623e-01 -6.606382e-01 -0.6068007477
## 357 -0.989483421 -0.9343576448 -8.818639e-01 -8.170848e-01 -0.7592867324
## 358 -1.728440539 -1.6735045135 -1.628764e+00 -1.571367e+00 -1.5301313230
## 359 -0.647985122 -0.5997791832 -5.535412e-01 -4.960720e-01 -0.4357047213
## 360 -2.344855185 -2.3038227008 -2.248495e+00 -2.180531e+00 -2.1212458706
## 361 -1.941273476 -1.8973988617 -1.843893e+00 -1.784596e+00 -1.7228854200
## 362 -1.556095837 -1.5145335080 -1.460039e+00 -1.405041e+00 -1.3486854547
## 363 -1.722093189 -1.6737803485 -1.621561e+00 -1.577204e+00 -1.5355351366
## 364 0.235121478 0.3023090492 3.873219e-01 4.633636e-01 0.5468974352
## 365 -0.835062474 -0.8022697073 -7.672146e-01 -7.318023e-01 -0.6952730692
## 366 -2.675584939 -2.6331252680 -2.586798e+00 -2.539644e+00 -2.4802373873
## 367 -2.142135702 -2.0987874437 -2.051764e+00 -2.004982e+00 -1.9555675475
## 368 -0.774147851 -0.7251073066 -6.753163e-01 -6.102572e-01 -0.5515144939
## 369 -2.369207986 -2.3216070049 -2.277059e+00 -2.230405e+00 -2.1725173237
## 370 -1.694205580 -1.6457565565 -1.598626e+00 -1.536577e+00 -1.4742941207
## 371 -3.387208997 -3.3323054027 -3.274775e+00 -3.208416e+00 -3.1479623088
## 372 -0.468803985 -0.4189327656 -3.628662e-01 -3.062187e-01 -0.2457830199
## 373 -2.023457681 -1.9435813163 -1.855586e+00 -1.765879e+00 -1.6824322048
## 374 -0.090777408 -0.0390612139 1.657136e-02 7.404868e-02 0.1356179242
## 375 -0.643038874 -0.5750197946 -4.934577e-01 -4.058062e-01 -0.3207376515
## 376 -3.011158839 -2.9668255029 -2.925691e+00 -2.875939e+00 -2.8132467685

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## 377 -0.183594959 -0.1325266506 -8.099178e-02 -2.357025e-02 0.0359994573
## 378 1.176416333 1.2312669238 1.292296e+00 1.349235e+00 1.4055625336
## 379 0.189587927 0.2444879422 3.028486e-01 3.618874e-01 0.4345285369
## 380 -1.901347379 -1.8484072767 -1.800344e+00 -1.752239e+00 -1.7026363071
## 381 -1.494584265 -1.4496828108 -1.395477e+00 -1.334707e+00 -1.2704986272
## 382 -0.820835275 -0.7577656709 -6.740843e-01 -5.958976e-01 -0.5278869557
## 383 0.198980973 0.2537178124 3.133750e-01 3.678409e-01 0.4305780148
## 384 -1.826825203 -1.7634234435 -1.685822e+00 -1.625816e+00 -1.5572857387
## 385 -1.941895442 -1.8923417522 -1.836996e+00 -1.778804e+00 -1.7200295212
## 386 -1.406487958 -1.3256241024 -1.243923e+00 -1.173392e+00 -1.1121788884
## 387 -2.248595943 -2.1963990144 -2.138869e+00 -2.078897e+00 -2.0184652660
## 388 -1.127679063 -1.0768997412 -1.012301e+00 -9.462488e-01 -0.8883297583
## 389 -0.122341481 -0.0695585052 -2.449661e-02 3.086740e-02 0.0856716687
## 390 -0.480462853 -0.4288503991 -3.632563e-01 -3.177336e-01 -0.2542471261
## 391 -0.321157851 -0.2668071096 -2.132536e-01 -1.600776e-01 -0.0976605512
## 392 0.684384503 0.7286573830 7.722609e-01 8.144832e-01 0.8563254992
## 393 -2.165851133 -2.1035597779 -2.047221e+00 -1.985656e+00 -1.9280570449
## 394 -1.416840156 -1.3776214933 -1.330259e+00 -1.284675e+00 -1.2405907551
## 395 -1.264487444 -1.2055435510 -1.149282e+00 -1.089022e+00 -1.0280213987
## 396 1.048629301 1.1033397858 1.176094e+00 1.254363e+00 1.3293150348
## 397 -0.089586945 -0.0539443024 -8.847650e-03 2.897664e-02 0.0702049269
## 398 -0.474748874 -0.4155714138 -3.814541e-01 -3.429248e-01 -0.3004668790
## 399 -2.357766106 -2.3005951486 -2.239523e+00 -2.179872e+00 -2.1165790274
## 400 -1.274501735 -1.2207515743 -1.145887e+00 -1.082590e+00 -1.0050317537
## 401 0.619218230 0.6828892175 7.493699e-01 8.164612e-01 0.8825997873
## 402 0.465721075 0.5249794032 6.038307e-01 6.744363e-01 0.7462677346
## 403 0.582716037 0.6545606323 7.293222e-01 8.037238e-01 0.8844266837
## 404 0.037740273 0.1068453032 1.722790e-01 2.474952e-01 0.3226787132
## 405 -1.952863178 -1.8915426402 -1.839338e+00 -1.764668e+00 -1.6946949320
## 406 -0.438720518 -0.3814919159 -3.064641e-01 -2.362685e-01 -0.1552180550
## 407 -2.036839973 -1.9823324961 -1.919822e+00 -1.849783e+00 -1.7772174394
## 408 -1.842279189 -1.7739103227 -1.705831e+00 -1.637549e+00 -1.5764374175
## 409 0.140740699 0.2107609673 2.855385e-01 3.612291e-01 0.4347393284
## 410 -1.730785372 -1.6632701965 -1.606967e+00 -1.535694e+00 -1.4617539964
## 411 0.253381897 0.3194345294 3.821191e-01 4.627361e-01 0.5468815675
## 412 0.203907420 0.2746859247 3.329632e-01 4.044385e-01 0.4777563989
## 413 -0.608480932 -0.5496738891 -4.881885e-01 -4.141440e-01 -0.3443057481
## 414 -1.495764282 -1.4423989156 -1.378362e+00 -1.297308e+00 -1.2297460278
## 415 -0.415026452 -0.3525610294 -2.790301e-01 -2.061021e-01 -0.1245785641
## 416 -1.614861008 -1.5256510513 -1.433397e+00 -1.344081e+00 -1.2595609313
## 417 0.277656466 0.3417049932 4.168677e-01 4.979271e-01 0.5780405954
## 418 -0.557860177 -0.4942571278 -4.273453e-01 -3.559063e-01 -0.2806943053
## 419 -1.155378317 -1.0934863379 -1.028754e+00 -9.592132e-01 -0.8860188682
## 420 -0.899201164 -0.8351097259 -7.698697e-01 -7.051413e-01 -0.6420587481
## 421 -1.516928791 -1.4489523141 -1.388345e+00 -1.314217e+00 -1.2295623358
## 422 -0.811227013 -0.7450040821 -6.788906e-01 -6.143489e-01 -0.5521364784
## 423 -0.107374167 -0.0481913668 1.596476e-02 8.375047e-02 0.1543996156
## 424 -0.856648842 -0.7979971574 -7.261768e-01 -6.449003e-01 -0.5578495254
## 425 -0.558088150 -0.4991898063 -4.241647e-01 -3.618848e-01 -0.2837098560
## 426 0.039459382 0.1016300214 1.785973e-01 2.675122e-01 0.3649313249
## 427 -1.637114851 -1.5744257395 -1.509110e+00 -1.442421e+00 -1.3752223128
## 428 0.018007071 0.0859141470 1.819016e-01 2.535025e-01 0.3164614387
## 429 -0.318858494 -0.2597246455 -2.028728e-01 -1.154639e-01 -0.0441474795
## 430 -0.777227748 -0.7014838236 -6.212812e-01 -5.425220e-01 -0.4683326261

```

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## 431 -2.023371082 -1.9604706966 -1.904675e+00 -1.842405e+00 -1.7743639897
## 432 -1.900595027 -1.8467655621 -1.789696e+00 -1.721499e+00 -1.6473009056
## 433 -0.531426684 -0.4757530028 -3.990790e-01 -3.353340e-01 -0.2616537046
## 434 -1.110430392 -1.0371267798 -9.562359e-01 -8.758305e-01 -0.8006620861
## 435 -1.236649145 -1.1823681232 -1.135582e+00 -1.073962e+00 -1.0017680757
## 436 -1.438225789 -1.3598987102 -1.279689e+00 -1.199575e+00 -1.1190202694
## 437 0.525886854 0.5847458271 6.553167e-01 7.184989e-01 0.7879225805
## 438 -0.640154319 -0.5891550645 -5.374607e-01 -4.659132e-01 -0.3903030537
## 439 -0.061749740 0.0159925294 8.324812e-02 1.384691e-01 0.2054159494
## 440 -1.683578289 -1.6314832501 -1.571846e+00 -1.495632e+00 -1.4264769003
## 441 -1.700364186 -1.6337013522 -1.564578e+00 -1.496446e+00 -1.4313861870
## 442 -1.764611142 -1.6985923548 -1.637123e+00 -1.557367e+00 -1.4855241789
## 443 -0.600907936 -0.5498124934 -4.788427e-01 -3.892603e-01 -0.2877414342
## 444 0.871236372 0.9303764830 1.001822e+00 1.063988e+00 1.1351460241
## 445 -0.433615718 -0.3669433743 -2.970515e-01 -2.199844e-01 -0.1311896747
## 446 0.825376950 0.8872863740 9.478484e-01 1.006000e+00 1.0926805050
## 447 -1.927665847 -1.8732521765 -1.808103e+00 -1.734513e+00 -1.6467499674
## 448 -1.535248466 -1.4817921446 -1.429388e+00 -1.346328e+00 -1.2767597797
## 449 -0.167330335 -0.1047695560 -6.013509e-02 5.057232e-04 0.0751508396
## 450 -0.702856789 -0.6278763139 -5.587430e-01 -4.951118e-01 -0.4135284242
## 451 -1.220156436 -1.1534458833 -1.077314e+00 -9.950875e-01 -0.9099638522
## 452 -2.156783720 -2.0892459125 -2.014869e+00 -1.938539e+00 -1.8633764965
## 453 0.084388900 0.1468437594 2.098997e-01 2.739824e-01 0.3498295715
## 454 -2.346344170 -2.2855382510 -2.208244e+00 -2.150613e+00 -2.0752481141
## 455 -1.127253973 -1.0660592419 -9.855547e-01 -9.036628e-01 -0.8210608465
## 456 1.137078698 1.1955977527 1.269758e+00 1.342438e+00 1.4127092060
## 457 -0.748801744 -0.6930238038 -6.224511e-01 -5.645691e-01 -0.5043451615
## 458 -2.007954625 -1.9324874010 -1.849102e+00 -1.765809e+00 -1.6886103825
## 459 -1.125534794 -1.0667295160 -9.916368e-01 -9.174792e-01 -0.8441812250
## 460 -0.004629556 0.0679610975 1.409433e-01 2.106455e-01 0.2768894548
## 461 -0.990441005 -0.9291970073 -8.575555e-01 -7.786067e-01 -0.6991055150
## 462 -1.320444588 -1.2623167056 -1.187038e+00 -1.112046e+00 -1.0234024497
## 463 -0.380084729 -0.3238527822 -2.616047e-01 -1.844931e-01 -0.0947145444
## 464 -0.511286623 -0.4457357476 -3.880947e-01 -3.082256e-01 -0.2468640497
## 465 1.571767949 1.6559159804 1.724420e+00 1.792454e+00 1.8641276106
## 466 -0.162509210 -0.1106974502 -5.885903e-02 9.754823e-03 0.0804449740
## 467 -2.873001290 -2.8085313694 -2.739920e+00 -2.666964e+00 -2.5909192993
## 468 -1.256971671 -1.1991794672 -1.134376e+00 -1.084649e+00 -1.0213304698
## 469 -0.783819106 -0.7163146216 -6.500604e-01 -5.889484e-01 -0.5084348032
## 470 -2.565290346 -2.5116285878 -2.452274e+00 -2.378428e+00 -2.3132847127
## 471 -2.732854492 -2.6516294813 -2.555131e+00 -2.453995e+00 -2.3589141064
## 472 -3.307507463 -3.2419792586 -3.175826e+00 -3.112156e+00 -3.0296276063
## 473 1.573382135 1.6557889405 1.728955e+00 1.794939e+00 1.8586304867
## 474 -1.683134377 -1.6241241445 -1.556585e+00 -1.479495e+00 -1.3952764639
## 475 -1.273045519 -1.2122916697 -1.155725e+00 -1.091731e+00 -1.0211903363
## 476 -0.434840476 -0.3743854247 -3.160168e-01 -2.390293e-01 -0.1725079600
## 477 -0.865074783 -0.7977254330 -7.249177e-01 -6.464131e-01 -0.5637132822
## 478 -0.525401039 -0.4727887650 -4.127960e-01 -3.487237e-01 -0.2836247500
## 479 -1.743850984 -1.6851228760 -1.612429e+00 -1.543825e+00 -1.4750848499
## 480 -2.158467274 -2.1043414999 -2.041406e+00 -1.989367e+00 -1.9298248344
## 481 1.168643668 1.2210906890 1.284650e+00 1.348207e+00 1.4109553171
## 482 -1.207986169 -1.1257110777 -1.046943e+00 -9.804320e-01 -0.9099378816
## 483 -0.977622465 -0.9108022362 -8.548448e-01 -7.903985e-01 -0.7152001121
## 484 0.029041719 0.1092251515 2.017635e-01 2.949522e-01 0.3783955000

```

```

## 485  0.822729374  0.8860442430  9.431009e-01  1.003836e+00  1.0764543300
## 486 -0.191579711 -0.1288232556 -5.702888e-02  2.259019e-02  0.1075135424
## 487  1.209233359  1.2816618123  1.350940e+00  1.414749e+00  1.4837474268
## 488 -0.547466706 -0.4768345499 -4.113574e-01 -3.382024e-01 -0.2527799608
## 489 -0.751554605 -0.7009669915 -6.349895e-01 -5.550775e-01 -0.4730534430
## 490  1.193929530  1.2499582167  1.306202e+00  1.376092e+00  1.4450255767
## 491 -0.673611171 -0.6149882514 -5.482973e-01 -4.772589e-01 -0.3970615185
## 492 -0.775669536 -0.7049365022 -6.377494e-01 -5.697581e-01 -0.5024978347
## 493 -1.879104357 -1.8122493676 -1.745647e+00 -1.680384e+00 -1.6169223254
## 494  0.644692108  0.7148940690  7.716747e-01  8.586570e-01  0.9412781399
## 495 -0.772477618 -0.6983615357 -6.298812e-01 -5.507510e-01 -0.4672008989
## 496 -1.337450232 -1.2807512527 -1.219103e+00 -1.152633e+00 -1.0816272137
## 497 -0.884635278 -0.8139049537 -7.327273e-01 -6.463393e-01 -0.5596756359
## 498 -2.009660857 -1.9540217349 -1.893479e+00 -1.827902e+00 -1.7576952254
## 499 -1.135572069 -1.0803373370 -1.017449e+00 -9.473799e-01 -0.8737672191
## 500 -0.624919801 -0.5597268403 -4.958463e-01 -4.342863e-01 -0.3615329735
## 501 -1.206555130 -1.1584533017 -1.100588e+00 -1.035156e+00 -0.9647536817
## 502 -0.352371350 -0.2785843117 -2.045321e-01 -1.310381e-01 -0.0582938432
## 503 -0.544920712 -0.4878295785 -4.322905e-01 -3.635972e-01 -0.2968940938
## 504 -1.012322917 -0.9566678532 -8.965562e-01 -8.306794e-01 -0.7588899673
## 505 -0.647743705 -0.5823083961 -5.076156e-01 -4.291750e-01 -0.3471968528
## 506 -0.171227778 -0.1100848238 -3.995855e-02  3.925155e-02  0.1236204036
## 507 -0.484945556 -0.4162108747 -3.430317e-01 -2.695277e-01 -0.1962615875
## 508 -0.961131203 -0.9184902746 -8.636897e-01 -8.017982e-01 -0.7234697347
## 509 -0.934113350 -0.8740124510 -8.131084e-01 -7.416746e-01 -0.6724307677
## 510 -0.588962592 -0.5214449021 -4.591608e-01 -3.762422e-01 -0.2966944619
## 511 -1.692560035 -1.6292541079 -1.567544e+00 -1.499043e+00 -1.4167042404
## 512 -0.483681931 -0.4208381869 -3.525156e-01 -2.697752e-01 -0.1791772055
## 513 -1.123603083 -1.0618569507 -9.944324e-01 -9.235426e-01 -0.8516669038
## 514 -1.207328605 -1.1474199603 -1.084613e+00 -1.004850e+00 -0.9299758108
## 515 -1.969659899 -1.9025955288 -1.824267e+00 -1.753895e+00 -1.6731801241
## 516 -1.785076493 -1.7235530776 -1.659784e+00 -1.587933e+00 -1.5098353810
## 517 -1.725980577 -1.6544433753 -1.571129e+00 -1.480933e+00 -1.3911525936
## 518 -0.637889288 -0.5692821391 -4.983424e-01 -4.262539e-01 -0.3532793020
## 519 -1.764816645 -1.7094765503 -1.624590e+00 -1.545034e+00 -1.4755373010
## 520 -0.129364427 -0.0702945895  4.923772e-04  6.115066e-02  0.1266211090
## 521 -2.281165034 -2.2195451662 -2.138356e+00 -2.072117e+00 -2.0102281498
## 522 -0.805462721 -0.7336853419 -6.610521e-01 -5.878766e-01 -0.5142981312
## 523  0.579571386  0.6585884058  7.365424e-01  8.071612e-01  0.8834183937
## 524 -0.242124934 -0.1807405770 -1.152733e-01 -4.106212e-02  0.0400403023
## 525 -1.411130636 -1.3492040415 -1.287075e+00 -1.223393e+00 -1.1412012525
## 526 -1.758947502 -1.6930559564 -1.630013e+00 -1.544769e+00 -1.4599934042
## 527 -0.949205471 -0.8979216468 -8.344883e-01 -7.793835e-01 -0.7167487116
## 528 -1.140426150 -1.0894799417 -1.017030e+00 -9.506714e-01 -0.8777792850
## 529  0.651165519  0.7195631016  7.916330e-01  8.641294e-01  0.9360150289
## 530 -0.229207500 -0.1637779507 -8.211973e-02  6.255955e-03  0.0942026136
## 531 -1.508112620 -1.4407918003 -1.385759e+00 -1.318573e+00 -1.2503499039
## 532 -1.037414877 -0.9689494450 -9.117405e-01 -8.447049e-01 -0.7765634912
## 533 -1.824746771 -1.7728088797 -1.697058e+00 -1.619635e+00 -1.5426021886
## 534  1.373122530  1.4249067362  1.492687e+00  1.569690e+00  1.6493142635
## 535 -1.073952049 -1.0168376866 -9.467122e-01 -8.741081e-01 -0.7960964650
## 536 -1.373271557 -1.3096575153 -1.250184e+00 -1.188971e+00 -1.1031996148
## 537 -0.592727186 -0.5389856336 -4.826777e-01 -4.042971e-01 -0.3305559833
## 538 -1.060691265 -0.9865358957 -9.045198e-01 -8.219313e-01 -0.7427621826

```

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## 539  0.839413221  0.8506585666  9.088871e-01  9.887571e-01  1.0510704506
## 540 -0.845795193 -0.7843876361 -7.126645e-01 -6.356903e-01 -0.5578639214
## 541 -0.598067983 -0.5362466013 -4.628277e-01 -3.840184e-01 -0.3051175570
## 542 -2.879143747 -2.8153494008 -2.750237e+00 -2.670944e+00 -2.5789037781
## 543 -1.125342938 -1.0719687716 -1.010316e+00 -9.401099e-01 -0.8644726478
## 544 -1.306744519 -1.2487825199 -1.179421e+00 -1.098656e+00 -1.0174500832
## 545  0.324291898  0.3905453240  4.615939e-01  5.386153e-01  0.6210836640
## 546 -0.924340847 -0.8626234133 -7.945834e-01 -7.255766e-01 -0.6575690037
## 547 -0.509073670 -0.4482926209 -3.725736e-01 -2.961890e-01 -0.2237282184
## 548  0.226984662  0.2845488083  3.565135e-01  4.276879e-01  0.5140203350
## 549 -0.786049642 -0.7162657571 -6.485741e-01 -5.711797e-01 -0.5017534056
## 550 -0.480418165 -0.4226579453 -3.584977e-01 -2.923729e-01 -0.2234846518
## 551 -0.223917193 -0.1619032159 -9.119253e-02 -2.891492e-02  0.0526975795
## 552  0.642783392  0.7050561667  7.958710e-01  8.875341e-01  0.9770555229
## 553 -2.097222051 -2.0340090220 -1.957735e+00 -1.877136e+00 -1.7990642456
## 554 -1.628919732 -1.5560877769 -1.476320e+00 -1.386567e+00 -1.3008306425
## 555  0.121287698  0.1962582900  2.525151e-01  3.193566e-01  0.3847213275
## 556  0.436281879  0.5054154606  5.946180e-01  6.732841e-01  0.7622517396
## 557 -0.778960298 -0.7107791172 -6.345372e-01 -5.524475e-01 -0.4684965611
## 558 -0.665436673 -0.6132055750 -5.374716e-01 -4.741476e-01 -0.4117136112
## 559 -0.633205607 -0.5745255022 -5.063951e-01 -4.289673e-01 -0.3438778614
## 560 -3.083563493 -3.0297292963 -2.963331e+00 -2.890855e+00 -2.8200593096
## 561 -1.397120015 -1.3408536667 -1.276053e+00 -1.212242e+00 -1.1332365279
## 562 -1.557128663 -1.5023155870 -1.440166e+00 -1.376153e+00 -1.3016882143
## 563  0.083953779  0.1451961076  2.196576e-01  2.958384e-01  0.3723037541
## 564  0.004399004  0.0625767276  1.382884e-01  2.039167e-01  0.2834449763
## 565 -0.612633275 -0.5546157715 -4.970088e-01 -4.402795e-01 -0.3536173644
## 566 -0.796520646 -0.7237607617 -6.482411e-01 -5.760191e-01 -0.5095867137
## 567 -0.649250154 -0.5763156058 -5.173506e-01 -4.459805e-01 -0.3721310138
## 568  1.044250998  1.1058717863  1.169497e+00  1.233346e+00  1.2994351113
## 569 -0.239654588 -0.1684634682 -1.046576e-01 -1.321666e-02  0.0710085629
## 570 -0.008340934  0.0661982118  1.519469e-01  2.184319e-01  0.3006296774
## 571 -1.932212210 -1.8658246425 -1.790675e+00 -1.710297e+00 -1.6284213691
## 572  0.413639983  0.4751916164  5.454648e-01  6.328729e-01  0.7089855807
## 573  0.546820517  0.6005093134  6.643379e-01  7.384208e-01  0.8192231982
## 574 -2.358381052 -2.2804079287 -2.214126e+00 -2.149544e+00 -2.0780884408
## 575  0.255927996  0.3211757686  3.833349e-01  4.515705e-01  0.5291545274
## 576  0.472106373  0.5206324097  5.837686e-01  6.368543e-01  0.6993532461
## 577 -1.350824196 -1.2849078938 -1.223865e+00 -1.166231e+00 -1.1090443402
## 578 -2.600776916 -2.5313319132 -2.471830e+00 -2.400726e+00 -2.3294153712
## 579  0.469071793  0.5447715991  6.207057e-01  6.929379e-01  0.7592787132
## 580 -0.868587677 -0.8067152510 -7.339892e-01 -6.530777e-01 -0.5721982005
## 581 -0.736756069 -0.6679129384 -5.990353e-01 -5.345605e-01 -0.4722874467
## 582 -0.3853555816 -0.3346846561 -2.822146e-01 -2.253146e-01 -0.1633698527
## 583 -0.550625808 -0.4873480836 -4.213766e-01 -3.546051e-01 -0.2817983951
## 584 -1.219199475 -1.1495978909 -1.070196e+00 -9.857888e-01 -0.9010420599
## 585 -0.583179616 -0.5173857533 -4.372949e-01 -3.479846e-01 -0.2558177354
## 586  0.434545479  0.4899243507  5.552792e-01  6.234477e-01  0.6939477321
## 587 -0.702041716 -0.6302823587 -5.596571e-01 -4.803612e-01 -0.4006037448
## 588  0.758352704  0.8050114064  8.680159e-01  9.470457e-01  1.0375280835
## 589  0.068083698  0.1393737944  2.060592e-01  2.706956e-01  0.3476593470
## 590  0.059645006  0.1213798729  1.960849e-01  2.782472e-01  0.3600995989
## 591 -0.098719088 -0.0339795449  3.495917e-02  1.047913e-01  0.1735338395
## 592 -0.150488480 -0.0945068200 -2.802593e-02  4.540711e-02  0.1212957761

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## 593 -1.550211086 -1.4962593471 -1.412772e+00 -1.330700e+00 -1.2498847008
## 594 -3.069361059 -3.0021384275 -2.926541e+00 -2.852727e+00 -2.7696401368
## 595 -2.249443257 -2.1991364020 -2.141306e+00 -2.064927e+00 -1.9755674069
## 596 -2.205573809 -2.1465428796 -2.082121e+00 -2.019062e+00 -1.9616940310
## 597 0.849714299 0.9330921783 1.011804e+00 1.087122e+00 1.1606514311
## 598 -1.631638856 -1.5548584531 -1.475839e+00 -1.404476e+00 -1.3287241285
## 599 -1.220801513 -1.1523456627 -1.075846e+00 -9.904760e-01 -0.8997905548
## 600 -2.107897133 -2.0346281993 -1.966066e+00 -1.879684e+00 -1.8082263183
## 601 -0.919457368 -0.8482034029 -7.682922e-01 -6.838086e-01 -0.5984133562
## 602 -1.273672403 -1.2200376895 -1.160718e+00 -1.093224e+00 -1.0192221921
## 603 -0.055322274 0.0084952972 7.366316e-02 1.386280e-01 0.2157986229
## 604 -1.221479487 -1.1552205664 -1.071406e+00 -9.776676e-01 -0.8817369097
## 605 1.238966675 1.3060537452 1.374055e+00 1.440821e+00 1.5196930960
## 606 -0.805862256 -0.7438749166 -6.618985e-01 -6.046212e-01 -0.5267495520
## 607 -0.108544117 -0.0573078718 -1.195726e-03 6.088350e-02 0.1292716550
## 608 -2.953882111 -2.8936849106 -2.830476e+00 -2.765715e+00 -2.6894024794
## 609 -0.952173596 -0.9001854096 -8.418819e-01 -7.806952e-01 -0.7173228244
## 610 0.080430339 0.1525960440 2.175743e-01 2.818755e-01 0.3542483754
## 611 -0.500312800 -0.4338619795 -3.507981e-01 -2.885543e-01 -0.2219148041
## 612 -0.543924587 -0.4876417704 -4.328603e-01 -3.701212e-01 -0.2956432532
## 613 -0.095941208 -0.0369668983 2.178997e-02 7.923797e-02 0.1490021062
## 614 -0.130755807 -0.0703122087 -1.880455e-03 6.167279e-02 0.1280275734
## 615 0.183781245 0.2604386268 3.486198e-01 4.384445e-01 0.5198149397
## 616 -0.526743223 -0.4617206699 -4.016730e-01 -3.267767e-01 -0.2429158841
## 617 -0.306939158 -0.2484162662 -1.819659e-01 -1.121729e-01 -0.0363863594
## 618 0.894493772 0.9517982623 1.017866e+00 1.087673e+00 1.1644248510
## 619 -0.338262025 -0.2588921679 -1.886769e-01 -1.073198e-01 -0.0418698192
## 620 -0.162307488 -0.1048258833 -4.885644e-02 1.683020e-02 0.0834261341
## 621 -0.427676166 -0.3583194560 -2.868592e-01 -2.144937e-01 -0.1278102543
## 622 0.614508307 0.6780504871 7.433052e-01 8.236545e-01 0.9038266619
## 623 0.559029349 0.6073700113 6.683467e-01 7.351798e-01 0.7986423498
## 624 0.198369965 0.2585170010 3.292042e-01 3.842226e-01 0.4490194723
## 625 0.175727612 0.2375323450 2.962293e-01 3.667111e-01 0.4454621506
## 626 -1.211603606 -1.1411380200 -1.069600e+00 -9.980512e-01 -0.9269765388
## 627 -1.214111393 -1.1582250532 -1.095853e+00 -1.028484e+00 -0.9595150565
## 628 0.218952554 0.2852269223 3.535355e-01 4.231015e-01 0.5077972336
## 629 -1.332833196 -1.2770110904 -1.205107e+00 -1.142451e+00 -1.0668484245
## 630 1.434728403 1.5008868897 1.567031e+00 1.631427e+00 1.7069207399
## 631 -2.332127061 -2.2759095334 -2.213559e+00 -2.145351e+00 -2.0722017593
## 632 -0.892218585 -0.8338919472 -7.485979e-01 -6.783730e-01 -0.6136825766
## 633 -1.351685410 -1.2848049889 -1.210149e+00 -1.134936e+00 -1.0614382262
## 634 -2.650116482 -2.5940417383 -2.534245e+00 -2.466985e+00 -2.3900837486
## 635 1.919124912 1.9749307091 2.032361e+00 2.109751e+00 2.1890125315
## 636 -0.141009399 -0.0744144600 1.384319e-02 1.014735e-01 0.1870732976
## 637 -2.423116968 -2.3478652184 -2.278505e+00 -2.204658e+00 -2.1365672346
## 638 -1.251014492 -1.1951152007 -1.127203e+00 -1.062449e+00 -0.9980713298
## 639 -0.867379210 -0.8062586880 -7.501172e-01 -6.929430e-01 -0.6333865839
## 640 -2.029830584 -1.9755327491 -1.922006e+00 -1.836408e+00 -1.7616343036
## 641 -1.073565714 -1.0204459522 -9.577221e-01 -8.805977e-01 -0.7961983423
## 642 -0.368140708 -0.3058897315 -2.336165e-01 -1.533224e-01 -0.0676564655
## 643 0.403062204 0.4645259329 5.343573e-01 6.092244e-01 0.6865086602
## 644 -1.605779048 -1.5393321159 -1.477861e+00 -1.391824e+00 -1.3124527714
## 645 -0.741784264 -0.6840545998 -6.033081e-01 -5.316791e-01 -0.4439947849
## 646 -0.745291312 -0.6819395179 -6.151341e-01 -5.474433e-01 -0.4765286389

```

```

## 647 -0.641593278 -0.5748819462 -5.057509e-01 -4.375392e-01 -0.3714106336
## 648 -1.230207515 -1.1736107272 -1.102333e+00 -1.033843e+00 -0.9473242587
## 649 0.235607692 0.2983939785 3.763709e-01 4.465835e-01 0.5248355393
## 650 -0.943709896 -0.8818123662 -8.109553e-01 -7.334416e-01 -0.6519068688
## 651 0.423698732 0.4801398832 5.381862e-01 6.149683e-01 0.6898758381
## 652 0.173684988 0.2301627743 2.853763e-01 3.479680e-01 0.4084882515
## 653 -0.897064739 -0.8403881068 -7.741168e-01 -7.003843e-01 -0.6222169239
## 654 -2.296981597 -2.2315272049 -2.167499e+00 -2.105538e+00 -2.0289585099
## 655 -0.798247862 -0.7314149166 -6.460412e-01 -5.763820e-01 -0.5028345361
## 656 -0.847564252 -0.7928218201 -7.325477e-01 -6.548934e-01 -0.5769298277
## 657 -0.056946439 0.0053272425 7.034697e-02 1.378253e-01 0.2076051724
## 658 -1.091581500 -1.0332675992 -9.722874e-01 -9.075001e-01 -0.8379796920
## 659 -0.422713003 -0.3519958129 -2.821646e-01 -2.141341e-01 -0.1306420146
## 660 -0.242316573 -0.1810939646 -9.587689e-02 -3.667548e-02 0.0385064830
## 661 0.601628937 0.6611237559 7.205674e-01 7.910383e-01 0.8596393219
## 662 -1.597050170 -1.5290625940 -1.455116e+00 -1.377721e+00 -1.2984526749
## 663 -0.005764938 0.0418753149 9.624971e-02 1.642781e-01 0.2327741992
## 664 -0.171954446 -0.1065426335 -3.741664e-02 3.327430e-02 0.1170158633
## 665 -0.808349218 -0.7491187813 -6.859256e-01 -6.197059e-01 -0.5514525435
## 666 -2.232488569 -2.1610599802 -2.087905e+00 -2.013777e+00 -1.9394726452
## 667 -0.359877041 -0.3009514673 -2.403002e-01 -1.722336e-01 -0.1031848158
## 668 -1.095592771 -1.0313403857 -9.629558e-01 -8.924332e-01 -0.8101481697
## 669 -1.486176612 -1.4348574663 -1.366174e+00 -1.293318e+00 -1.2258194178
## 670 -0.751044485 -0.6983853879 -6.171076e-01 -5.423057e-01 -0.4626309961
## 671 0.494564412 0.5523550133 6.227272e-01 6.882823e-01 0.7504119219
## 672 0.380870115 0.4447757901 5.163754e-01 5.856002e-01 0.6586891516
## 673 -0.422172431 -0.3576801161 -2.949552e-01 -2.244355e-01 -0.1487485059
## 674 -1.325182309 -1.2626689907 -1.197014e+00 -1.129937e+00 -1.0626716132
## 675 -1.091686232 -1.0256904929 -9.548516e-01 -8.816215e-01 -0.8081733362
## 676 -2.030577817 -1.9622649929 -1.911388e+00 -1.849269e+00 -1.7865955693
## 677 -1.250349179 -1.1840319579 -1.117485e+00 -1.050993e+00 -0.9840713197
## 678 -0.304323176 -0.2469687600 -1.753695e-01 -9.782550e-02 -0.0209617313
## 679 -2.333309187 -2.2693664957 -2.197777e+00 -2.108804e+00 -2.0326643831
## 680 -2.063168006 -1.9944769325 -1.923435e+00 -1.847507e+00 -1.7655051442
## 681 -0.287043481 -0.2236371138 -1.418142e-01 -6.386972e-02 0.0102603799
## 682 -0.531154280 -0.4729915400 -4.122195e-01 -3.510021e-01 -0.2767714075
## 683 -1.503230307 -1.4497585960 -1.396450e+00 -1.339527e+00 -1.2697516646
## 684 -0.798140011 -0.7377199221 -6.736173e-01 -6.080270e-01 -0.5418197743
## 685 -0.407498227 -0.3473800611 -2.872966e-01 -2.227823e-01 -0.1547462916
## 686 -0.094218866 -0.0337695733 2.922413e-02 9.271667e-02 0.1604482711
## 687 -1.391279629 -1.3276177945 -1.260495e+00 -1.187644e+00 -1.1085940355
## 688 -0.169400802 -0.1008368078 -2.951734e-02 4.413148e-02 0.1281227369
## 689 -0.894077098 -0.8250619811 -7.592441e-01 -6.926401e-01 -0.6207074373
## 690 -1.723310198 -1.6683096157 -1.609903e+00 -1.548324e+00 -1.4826179393
## 691 -1.273703484 -1.2167642216 -1.142334e+00 -1.045650e+00 -0.9661504975
## 692 0.398173258 0.4636461944 5.368025e-01 6.138993e-01 0.6919271978
## 693 -1.054446354 -0.9855689362 -9.202578e-01 -8.561120e-01 -0.7896572936
## 694 -0.093855643 -0.0349628050 2.357445e-02 8.156329e-02 0.1536847930
## 695 -1.066117336 -0.9968016076 -9.293360e-01 -8.643437e-01 -0.8018519166
## 696 -1.243231627 -1.1913845127 -1.139203e+00 -1.079084e+00 -1.0083437487
## 697 -0.960348436 -0.9079970070 -8.589850e-01 -8.007077e-01 -0.7239135469
## 698 -0.607716215 -0.5482178803 -4.858214e-01 -4.159797e-01 -0.3358465082
## 699 -0.549528734 -0.4855524230 -4.238106e-01 -3.544336e-01 -0.2797371126
## 700 -1.074447300 -1.0141617738 -9.486825e-01 -8.784470e-01 -0.8044968266

```

```

## 701 0.004509444 0.0644265059 1.398326e-01 2.156485e-01 0.2912308979
## 702 0.520134001 0.5766689541 6.336427e-01 7.013993e-01 0.7847348610
## 703 -2.631349905 -2.5751982851 -2.500088e+00 -2.428160e+00 -2.3467275862
## 704 0.747458238 0.8026740633 8.577413e-01 9.303419e-01 1.0045096040
## 705 0.513620690 0.5880767530 6.709197e-01 7.559607e-01 0.8381624600
## 706 -1.499353660 -1.4363392242 -1.379302e+00 -1.321532e+00 -1.2567031851
## 707 0.425208532 0.4873436008 5.541829e-01 6.350408e-01 0.7229549102
## 708 2.280864954 2.3563131764 2.424337e+00 2.513277e+00 2.6040660084
## 709 -1.811838765 -1.7429456448 -1.674825e+00 -1.607152e+00 -1.5419252618
## 710 -2.368143240 -2.2944622498 -2.221456e+00 -2.141968e+00 -2.0585196662
## 711 -1.054157322 -0.9851047878 -9.141856e-01 -8.446743e-01 -0.7705693295
## 712 -1.118851069 -1.0497529824 -9.817608e-01 -9.139667e-01 -0.8447009581
## 713 -0.578392240 -0.5179258568 -4.395285e-01 -3.795655e-01 -0.3151012366
## 714 -0.068491317 -0.0053486867 6.526670e-02 1.415554e-01 0.2208622082
## 715 -0.362257375 -0.3006296982 -2.384192e-01 -1.728705e-01 -0.1066416698
## 716 0.306526926 0.3759363535 4.439846e-01 5.215572e-01 0.5978373139
## 717 -1.404817008 -1.3435741151 -1.280218e+00 -1.214567e+00 -1.1478806842
## 718 -1.967171563 -1.9121306600 -1.839418e+00 -1.764491e+00 -1.6906418858
## 719 -1.314981053 -1.2609730471 -1.196924e+00 -1.124770e+00 -1.0461436793
## 720 -0.620920973 -0.5520508975 -4.863257e-01 -4.215470e-01 -0.3514646406
## 721 -2.376885451 -2.3034415877 -2.231693e+00 -2.158464e+00 -2.0788291308
## 722 -1.977708041 -1.9174239425 -1.857753e+00 -1.767085e+00 -1.6840729383
## 723 -1.707344527 -1.6457847850 -1.580721e+00 -1.513866e+00 -1.4304910443
## 724 -1.426943592 -1.3688168077 -1.304147e+00 -1.233412e+00 -1.1595293345
## 725 -0.863010587 -0.8044950629 -7.434757e-01 -6.838019e-01 -0.6096919837
## 726 -0.034398551 0.0306371247 1.113943e-01 1.995409e-01 0.2879058160
## 727 -0.583466476 -0.5238154917 -4.570568e-01 -3.847003e-01 -0.3081599725
## 728 -2.513582579 -2.4498253057 -2.373443e+00 -2.286324e+00 -2.1947111010
## 729 -0.833403549 -0.7900185867 -7.374705e-01 -6.638737e-01 -0.5944499123
## 730 -1.358800360 -1.2956862402 -1.226606e+00 -1.152062e+00 -1.0743414223
## 731 -1.424639646 -1.3531848085 -1.291196e+00 -1.228675e+00 -1.1539468566
## 732 -1.337554939 -1.2722827900 -1.184185e+00 -1.100825e+00 -1.0280119471
## 733 0.720367347 0.7731594851 8.295244e-01 8.989208e-01 0.9758187186
## 734 0.752932046 0.8000398930 8.667383e-01 9.473748e-01 1.0329410056
## 735 -0.371231948 -0.3084322456 -2.434372e-01 -1.708228e-01 -0.0930136596
## 736 -0.441555662 -0.3733414256 -3.007506e-01 -2.261907e-01 -0.1502224440
## 737 0.152909448 0.2205366618 2.860983e-01 3.602285e-01 0.4364899834
## 738 -1.431952269 -1.3589897573 -1.286556e+00 -1.212967e+00 -1.1349672514
## 739 -0.768599883 -0.7078723103 -6.465929e-01 -5.856972e-01 -0.5074439867
## 740 -1.249887170 -1.1689948241 -1.096749e+00 -1.032451e+00 -0.9704576664
## 741 -0.609566430 -0.5490227244 -4.835852e-01 -4.139227e-01 -0.3410338079
## 742 -0.577981334 -0.5104240078 -4.292215e-01 -3.577995e-01 -0.2883816077
## 743 0.607682647 0.6640347660 7.359177e-01 8.084296e-01 0.8806346399
## 744 1.040918133 1.1094932344 1.168596e+00 1.222727e+00 1.2784216766
## 745 0.555562588 0.6384584892 7.097235e-01 7.847041e-01 0.8679892287
## 746 -0.952396870 -0.8857015720 -8.190163e-01 -7.536816e-01 -0.6903643270
## 747 -0.482314084 -0.4123130630 -3.249097e-01 -2.540136e-01 -0.1799078167
## 748 1.021607943 1.0860123290 1.168924e+00 1.247387e+00 1.3306386744
## 749 -0.866312636 -0.8035770450 -7.315153e-01 -6.534881e-01 -0.5745420886
## 750 -0.620734911 -0.5568528544 -5.026777e-01 -4.404563e-01 -0.3879545778
## 751 -1.660941107 -1.5883196272 -1.525661e+00 -1.446140e+00 -1.3749875189
## 752 -0.960751621 -0.8998448629 -8.350280e-01 -7.664345e-01 -0.6941354825
## 753 -0.268741638 -0.1926107745 -1.278746e-01 -4.992968e-02 0.0278881568
## 754 -1.701180718 -1.6356302163 -1.571460e+00 -1.497930e+00 -1.4223013014

```

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## 755 -0.654055945 -0.5896532713 -5.294421e-01 -4.498180e-01 -0.3757933189
## 756 0.646046591 0.7024339969 7.618145e-01 8.250069e-01 0.8922868836
## 757 0.304339170 0.3799475299 4.492036e-01 5.310236e-01 0.6224244933
## 758 -1.229913222 -1.1699158712 -1.089258e+00 -1.020612e+00 -0.9288178361
## 759 -1.365713396 -1.3184234510 -1.241527e+00 -1.184703e+00 -1.1220664381
## 760 -0.854998114 -0.7930732247 -7.119173e-01 -6.399017e-01 -0.5594984059
## 761 -2.003456652 -1.9478035695 -1.871586e+00 -1.797783e+00 -1.7259905367
## 762 -0.603816162 -0.5471547433 -4.722670e-01 -3.983658e-01 -0.3187573443
## 763 -0.435345939 -0.3647628381 -2.988264e-01 -2.194577e-01 -0.1304666472
## 764 -1.986963372 -1.9318242371 -1.869952e+00 -1.802897e+00 -1.7328895298
## 765 0.148240448 0.2172128512 2.843168e-01 3.654532e-01 0.4578953864
## 766 0.624226676 0.7062110611 7.777621e-01 8.460883e-01 0.9212638541
## 767 -0.795660229 -0.7383249939 -6.725554e-01 -6.001659e-01 -0.5233103967
## 768 -0.231931404 -0.1564500252 -8.006760e-02 -9.174698e-03 0.0546726316
## 769 -0.673602593 -0.6071527760 -5.463228e-01 -4.709862e-01 -0.4066984605
## 770 0.015948628 0.0626150312 1.136021e-01 1.703735e-01 0.2330751548
## 771 0.666881585 0.7270434809 7.930821e-01 8.639098e-01 0.9385361226
## 772 -0.505829435 -0.4055385842 -3.387282e-01 -2.670438e-01 -0.1933506806
## 773 1.032343727 1.1112602244 1.185498e+00 1.259840e+00 1.3372369303
## 774 0.869184841 0.9224154285 9.811265e-01 1.046151e+00 1.1170964137
## 90 91 92 93 94
## 0 -0.9655918536 -9.486779e-01 -0.931546914 -0.914495019 -0.898182540
## 1 -1.3713383598 -1.383145e+00 -1.378022682 -1.372917195 -1.367810416
## 2 -1.9827335087 -1.982341e+00 -1.981950879 -1.981561794 -1.981172610
## 3 -2.2033490717 -2.191298e+00 -2.179308023 -2.167355968 -2.155285867
## 4 1.4153223878 1.425246e+00 1.434690946 1.443669607 1.452650541
## 5 -0.5181568095 -5.112914e-01 -0.504535248 -0.497944455 -0.491429603
## 6 0.0062393613 6.711099e-03 0.007180473 0.007648349 0.008116343
## 7 -0.4353257607 -4.319521e-01 -0.429163757 -0.426962364 -0.424760412
## 8 -1.4628617910 -1.461154e+00 -1.459454076 -1.457688732 -1.455660827
## 9 -0.4837089502 -4.812789e-01 -0.479036864 -0.493648544 -0.566454323
## 10 -1.0228823988 -1.012162e+00 -1.001757964 -0.991691496 -0.981642275
## 11 0.4720287975 4.765453e-01 0.481039167 0.485518691 0.489982800
## 12 -2.5399145603 -2.535355e+00 -2.530371582 -2.525404438 -2.520436036
## 13 -1.5586745585 -1.558320e+00 -1.557707765 -1.557097726 -1.556487532
## 14 -2.0051335466 -1.997073e+00 -1.989051883 -1.981056851 -1.973082334
## 15 -1.1569053408 -1.151853e+00 -1.146362970 -1.140890530 -1.135416704
## 16 -2.5667077326 -2.560108e+00 -2.553540329 -2.546992214 -2.540441621
## 17 -1.6649145390 -1.663003e+00 -1.661101816 -1.659206313 -1.657317407
## 18 -1.2008011989 -1.198923e+00 -1.197053671 -1.195190580 -1.193297101
## 19 -0.5763060172 -5.746550e-01 -0.572671732 -0.570040876 -0.567056392
## 20 -0.4602797940 -4.589365e-01 -0.457338180 -0.455744926 -0.454151269
## 21 -0.0992595797 -9.890621e-02 -0.098554605 -0.098204126 -0.097851090
## 22 0.4788069378 4.872291e-01 0.495419665 0.503306667 0.510677218
## 23 -0.8868127031 -8.794468e-01 -0.872221253 -0.865217273 -0.858318681
## 24 -0.3874303764 -3.820736e-01 -0.376743631 -0.371271358 -0.365211051
## 25 -2.2677750778 -2.262575e+00 -2.256756660 -2.250300172 -2.243842049
## 26 -0.4720450170 -4.671917e-01 -0.462362617 -0.457106328 -0.450218902
## 27 -0.6652602392 -6.558520e-01 -0.645941127 -0.635800298 -0.625660704
## 28 -0.0249277139 -2.161229e-03 0.023583513 0.049035718 0.067136219
## 29 -1.8312217114 -1.828679e+00 -1.826238373 -1.824000583 -1.821946152
## 30 0.4665404868 4.934963e-01 0.517434287 0.536571317 0.555713193
## 31 -0.4182587516 -4.264209e-01 -0.403847229 -0.390391345 -0.376932054
## 32 -2.1890548703 -2.186658e+00 -2.184285848 -2.181934800 -2.179583156

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```

## 33  0.1772185716  1.897558e-01  0.202772669  0.216789610  0.231372344
## 34 -1.7639462486 -1.763829e+00 -1.763713048 -1.763597112 -1.763481146
## 35 -0.0464559230 -3.365574e-02 -0.0203030553 -0.006367322  0.007572439
## 36 -2.1773182199 -2.169291e+00 -2.161401372 -2.153634634 -2.145865930
## 37 -0.6111711905 -6.074848e-01 -0.603816961 -0.600160791 -0.596483147
## 38 -1.1704754112 -1.158564e+00 -1.145828645 -1.133134425 -1.120505151
## 39 -1.3187069417 -1.313645e+00 -1.308608461 -1.303587981 -1.298566230
## 40  1.2020701846  1.209396e+00  1.217188283  1.224955220  1.232724124
## 41 -0.4547563546 -4.505097e-01 -0.446284253 -0.442188332 -0.438531535
## 42 -3.8509453862 -3.845165e+00 -3.839719619 -3.834603234 -3.829485554
## 43  0.1468781030  1.553478e-01  0.163774977  0.172667541  0.183485613
## 44  0.7262198887  7.399425e-01  0.753210889  0.766436911  0.779666283
## 45  0.0229974171  3.030558e-02  0.037797006  0.045686788  0.053806493
## 46  0.2607000710  2.724182e-01  0.284450149  0.296520993  0.308914477
## 47 -1.0197393440 -1.016694e+00 -1.012927511 -1.009173374 -1.005418285
## 48  0.4782488187  5.024358e-01  0.526501587  0.550490547  0.574679086
## 49 -0.0020386593 -4.178265e-03 -0.007200751 -0.011107769 -0.015379565
## 50 -0.4943172480 -4.804060e-01 -0.466219148 -0.452321389 -0.439317746
## 51 -0.7974990733 -7.964755e-01 -0.795732667 -0.795123213 -0.794520309
## 52 -0.4872721311 -4.847454e-01 -0.482231323 -0.479725276 -0.477221156
## 53  0.8832096895  8.868868e-01  0.890545555  0.894192596  0.897839057
## 54 -1.5545115944 -1.539034e+00 -1.524097683 -1.509967398 -1.495833535
## 55 -1.4672714458 -1.456317e+00 -1.445099697 -1.433309140 -1.421186722
## 56 -3.2724582361 -3.266444e+00 -3.260364368 -3.254118570 -3.247771260
## 57 -1.2262841683 -1.210746e+00 -1.196027157 -1.182571108 -1.169111651
## 58 -1.5267015180 -1.517205e+00 -1.506478605 -1.492974742 -1.476820040
## 59  0.0029947658  2.414222e-02  0.045623027  0.066493466  0.085374360
## 60 -2.3836489259 -2.363214e+00 -2.342880538 -2.322612453 -2.302232979
## 61  0.0231325170  2.820372e-02  0.033998075  0.041211553  0.049202819
## 62 -0.4848192978 -4.814308e-01 -0.478059314 -0.474698574 -0.471335544
## 63 -1.3529315939 -1.346763e+00 -1.340611944 -1.334456677 -1.328286774
## 64 -1.3108160500 -1.308184e+00 -1.305566075 -1.302886448 -1.299949925
## 65 -1.8439780966 -1.838287e+00 -1.832625074 -1.826980896 -1.821349010
## 66 -1.8425799863 -1.828803e+00 -1.814521264 -1.799890756 -1.784519586
## 67 -0.1747501094 -1.694192e-01 -0.163682117 -0.157677424 -0.151136854
## 68 -0.9851388940 -9.841019e-01 -0.983070176 -0.982041709 -0.981012982
## 69 -0.5922739660 -5.942065e-01 -0.597516406 -0.602355028 -0.608075480
## 70  0.3934857624  3.999591e-01  0.407001491  0.414633265  0.422266972
## 71 -1.7936946994 -1.785429e+00 -1.777205151 -1.768482764 -1.757767701
## 72  0.4874628268  4.903488e-01  0.493704626  0.497542286  0.501380919
## 73 -1.1422152042 -1.142006e+00 -1.141798315 -1.141591058 -1.141407649
## 74  0.3051006464  3.143039e-01  0.324273316  0.335037125  0.345803659
## 75 -1.4898382322 -1.480834e+00 -1.472025144 -1.463226048 -1.453595240
## 76 -0.4203509668 -4.181469e-01 -0.415953939 -0.413767948 -0.411598646
## 77 -1.2185495751 -1.209856e+00 -1.200834438 -1.191665304 -1.182500202
## 78 -1.0426118003 -1.025560e+00 -1.006646648 -0.988134847 -0.975022073
## 79 -1.0804114806 -1.047968e+00 -1.013639356 -0.979420753 -0.945193484
## 80 -1.6704356126 -1.666230e+00 -1.662045997 -1.657875083 -1.653567376
## 81  0.1919317424  1.991627e-01  0.206301463  0.213310067  0.220262481
## 82 -1.9744159125 -1.972827e+00 -1.971245696 -1.969669616 -1.968105368
## 83 -2.6403530268 -2.637934e+00 -2.635527110 -2.633127896 -2.630741909
## 84  0.1403607698  1.432813e-01  0.145981129  0.148574409  0.151148469
## 85 -0.4254622774 -4.199501e-01 -0.414465521 -0.408998462 -0.403534055
## 86 -0.0876745982 -8.504472e-02 -0.082428021 -0.079906607 -0.077704623

```

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## 87 -2.3030932476 -2.297409e+00 -2.291753892 -2.286116509 -2.280488918
## 88 -1.9510832014 -1.938343e+00 -1.924711969 -1.911124227 -1.897595470
## 89 -1.6817388351 -1.680622e+00 -1.679510543 -1.678402744 -1.677294196
## 90 -0.0789575138 -6.766618e-02 -0.056795224 -0.046486178 -0.036965091
## 91 -0.9186512432 -9.117198e-01 -0.904699089 -0.897497353 -0.890293793
## 92 0.4152998058 4.221727e-01 0.429068214 0.436067168 0.443186042
## 93 -2.3952932868 -2.358737e+00 -2.322364319 -2.286107537 -2.249641247
## 94 -2.6301751367 -2.610338e+00 -2.585422136 -2.560052370 -2.547250390
## 95 -0.9787018503 -9.689336e-01 -0.959352895 -0.950186259 -0.941592291
## 96 -0.7092294987 -6.943534e-01 -0.678692959 -0.663082522 -0.647602311
## 97 0.3247581877 3.398866e-01 0.355708959 0.370603921 0.382273965
## 98 -2.1173970026 -2.109770e+00 -2.101723378 -2.093236344 -2.084747161
## 99 -0.9326908226 -9.297238e-01 -0.926771603 -0.923828851 -0.920896497
## 100 -1.4315946113 -1.424384e+00 -1.417209989 -1.410058646 -1.402866302
## 101 -1.5508950228 -1.539013e+00 -1.527190718 -1.515406076 -1.503839160
## 102 -0.0068539592 2.404957e-05 0.006867589 0.013689284 0.020516881
## 103 -3.4242644093 -3.405553e+00 -3.387711327 -3.371200288 -3.354685069
## 104 -0.7865020895 -7.768577e-01 -0.767199163 -0.757508002 -0.747814387
## 105 -1.1287060710 -1.127463e+00 -1.126225302 -1.124991983 -1.123766514
## 106 -0.9862896996 -9.797504e-01 -0.972999296 -0.965799831 -0.958344928
## 107 -0.1365777554 -1.387055e-01 -0.140830435 -0.142963764 -0.145105816
## 108 -0.2324185529 -2.232359e-01 -0.214099322 -0.204991880 -0.195898496
## 109 -1.4275546250 -1.434550e+00 -1.441973433 -1.434178948 -1.426382488
## 110 -0.6678211212 -6.636616e-01 -0.658549505 -0.653453735 -0.648356675
## 111 -0.7955381606 -7.931418e-01 -0.790757428 -0.788380677 -0.786020838
## 112 -0.8457217144 -8.398688e-01 -0.833737900 -0.826776856 -0.818539867
## 113 -0.3260176147 -3.168503e-01 -0.306436042 -0.292947117 -0.274168496
## 114 -1.1143438321 -1.093696e+00 -1.071928162 -1.050229694 -1.028689841
## 115 -0.3193197487 -3.169241e-01 -0.314540363 -0.312164282 -0.309794571
## 116 -1.6562335584 -1.655245e+00 -1.654261963 -1.653281781 -1.652301350
## 117 -1.6625350032 -1.660971e+00 -1.659396727 -1.657780190 -1.656091693
## 118 -1.6274959942 -1.621714e+00 -1.615960180 -1.610225127 -1.604526124
## 119 -0.9441806882 -9.313849e-01 -0.917940475 -0.903813986 -0.889683920
## 120 0.0802615515 8.151587e-02 0.082763902 0.084007951 0.085252314
## 121 0.7082367820 7.086895e-01 0.709140021 0.709589068 0.710038229
## 122 -0.7012424095 -6.979967e-01 -0.694767165 -0.691547985 -0.688300163
## 123 -2.2582986790 -2.247953e+00 -2.237658504 -2.227454349 -2.217470892
## 124 -1.4951607329 -1.480146e+00 -1.465205747 -1.449826255 -1.432538909
## 125 -2.0655939142 -2.041767e+00 -2.018868768 -1.997369289 -1.975864367
## 126 -1.3943862833 -1.394168e+00 -1.393951575 -1.393735459 -1.393520392
## 127 -0.9684553661 -9.607335e-01 -0.953050401 -0.945391791 -0.937758769
## 128 -1.0053736071 -9.881122e-01 -0.971267260 -0.954697440 -0.938385502
## 129 -0.3552770669 -3.505718e-01 -0.346140436 -0.341723193 -0.337221201
## 130 -0.3403685137 -3.321085e-01 -0.323889795 -0.315697367 -0.307513965
## 131 -0.4789581667 -4.653322e-01 -0.451968012 -0.438646511 -0.425321637
## 132 0.4943649523 4.952755e-01 0.496181556 0.497084685 0.497988042
## 133 -1.0229991729 -1.014619e+00 -1.006425022 -0.998226430 -0.989965788
## 134 -2.9210835460 -2.916892e+00 -2.912627763 -2.908197525 -2.903669180
## 135 -0.8362020616 -8.135646e-01 -0.789424916 -0.763481121 -0.737896591
## 136 -0.7192529951 -6.928480e-01 -0.665564679 -0.639874609 -0.619723410
## 137 -1.4304573678 -1.429506e+00 -1.428082838 -1.426664682 -1.425246166
## 138 -1.3795041297 -1.370942e+00 -1.362422301 -1.353930035 -1.345439522
## 139 0.0084212992 1.222674e-02 0.016522331 0.021322127 0.026123138
## 140 -0.1339219878 -1.261651e-01 -0.118557204 -0.110973614 -0.103388104

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## 141 -0.1819117500 -1.739757e-01 -0.166483570 -0.159322423 -0.152804836
## 142 -2.1501562261 -2.132704e+00 -2.115090869 -2.096849837 -2.077577720
## 143 -0.5705550491 -5.497543e-01 -0.529262277 -0.508835692 -0.488403935
## 144 -1.1803226254 -1.260600e+00 -1.266096191 -1.261544960 -1.256992577
## 145 -3.0828575475 -3.078681e+00 -3.074525459 -3.070383144 -3.066251967
## 146 0.0502405116 5.872416e-02 0.067191085 0.075680516 0.084198834
## 147 0.3855149114 3.954728e-01 0.405733197 0.415960844 0.426191081
## 148 -2.3159753171 -2.311109e+00 -2.305789467 -2.300486882 -2.295182954
## 149 -0.4824313026 -4.605135e-01 -0.438705520 -0.417529000 -0.398415711
## 150 -2.4519194214 -2.445499e+00 -2.439807298 -2.434842585 -2.429876615
## 151 0.9294368174 9.552390e-01 0.979454179 1.001202867 1.022957062
## 152 -1.0071552227 -1.002080e+00 -0.996767430 -0.991472223 -0.986175675
## 153 -2.4099674034 -2.409269e+00 -2.408574723 -2.407882350 -2.407189801
## 154 -0.6318669617 -6.220457e-01 -0.612273725 -0.602599443 -0.593182666
## 155 -3.0105020641 -2.994290e+00 -2.975439780 -2.956246469 -2.943479235
## 156 -2.4097388571 -2.399017e+00 -2.388230769 -2.377253935 -2.366152659
## 157 1.0148684965 1.016733e+00 1.018704267 1.020890089 1.023195906
## 158 -1.5586076900 -1.554164e+00 -1.549741875 -1.545334217 -1.540933961
## 159 -1.3648313833 -1.354689e+00 -1.344596726 -1.333673070 -1.319565723
## 160 -0.6779170374 -6.744342e-01 -0.670968750 -0.667395852 -0.663385597
## 161 -1.2028764855 -1.199944e+00 -1.196851267 -1.193434718 -1.189836938
## 162 1.4771000897 1.486442e+00 1.495737407 1.505002986 1.514242574
## 163 -1.0824129475 -1.075026e+00 -1.067675506 -1.060348757 -1.053024659
## 164 -0.5095071081 -5.010078e-01 -0.492638207 -0.484462445 -0.476374837
## 165 -0.5178593764 -5.155751e-01 -0.513302220 -0.511036620 -0.508742444
## 166 -1.7026477622 -1.698902e+00 -1.695226277 -1.691660318 -1.688146417
## 167 -0.5811201098 -5.626178e-01 -0.544140856 -0.525654251 -0.507162965
## 168 1.0010052679 1.002043e+00 1.003076444 1.004129571 1.005269263
## 169 -0.0319050772 -2.980518e-02 -0.027715797 -0.025633088 -0.023551128
## 170 -0.6973871635 -6.906468e-01 -0.683940128 -0.676757345 -0.667740809
## 171 -0.8282428820 -8.190036e-01 -0.809810619 -0.800323002 -0.789567168
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## 174 -0.9420973835 -9.254124e-01 -0.908170913 -0.891865913 -0.878802011
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## 176 -0.6911397998 -6.892299e-01 -0.687813826 -0.686894873 -0.685975687
## 177 -0.1439043146 -1.363844e-01 -0.128902179 -0.121443837 -0.113993426
## 178 -1.1109987662 -1.110016e+00 -1.109037279 -1.108062121 -1.107086716
## 179 -1.7898631363 -1.784723e+00 -1.779592699 -1.774471005 -1.769370709
## 180 0.7539878171 7.585262e-01 0.763041815 0.767543029 0.772055703
## 181 -2.1408303873 -2.132770e+00 -2.124790347 -2.116913685 -2.109076864
## 182 1.0552853047 1.063892e+00 1.072490802 1.081126926 1.089814433
## 183 -1.1876705004 -1.173496e+00 -1.158457797 -1.143467625 -1.128570805
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## 187 -1.5454749401 -1.543726e+00 -1.541985951 -1.540251394 -1.538524995
## 188 -0.9356105961 -9.204352e-01 -0.905268626 -0.890019475 -0.874225088
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## 190 -0.6472189587 -6.364958e-01 -0.623677837 -0.608715618 -0.593749609
## 191 0.1163284940 1.252949e-01 0.134216468 0.143438488 0.153948178
## 192 -0.2099145326 -2.052756e-01 -0.200190935 -0.195122545 -0.190052871
## 193 -0.6247110104 -6.133860e-01 -0.602017898 -0.590686105 -0.579351441
## 194 -3.0004962678 -2.995533e+00 -2.990304139 -2.985092362 -2.979879265

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## 195 -1.5898840495 -1.582499e+00 -1.573466496 -1.563660853 -1.553805457
## 196 -0.2752734289 -2.590668e-01 -0.242113446 -0.223537682 -0.201872547
## 197 -0.8341232467 -8.220289e-01 -0.810003158 -0.798062654 -0.786277088
## 198 -1.0725955883 -1.069473e+00 -1.065629828 -1.061798676 -1.057966555
## 199 -0.5444374719 -5.420418e-01 -0.538928879 -0.535825886 -0.532722106
## 200 0.1343961632 1.988326e-01 0.265973691 0.329719679 0.403711350
## 201 -1.4694013779 -1.413949e+00 -1.353043659 -1.292688860 -1.230998423
## 202 -0.5211250562 -4.530089e-01 -0.387540572 -0.322249844 -0.249885829
## 203 -1.4800835462 -1.424138e+00 -1.365251518 -1.298993986 -1.228691901
## 204 -1.9775862340 -1.914615e+00 -1.847496745 -1.778592174 -1.709889086
## 205 0.6051710665 6.610744e-01 0.718621547 0.774244669 0.834120558
## 206 0.5050519054 5.548193e-01 0.606862511 0.662491810 0.725223754
## 207 -1.4081628034 -1.344637e+00 -1.277006227 -1.206566518 -1.135813920
## 208 -1.2747346492 -1.205454e+00 -1.143199302 -1.085581569 -1.017435256
## 209 -1.9409285635 -1.867332e+00 -1.792238029 -1.720075744 -1.655240061
## 210 -0.9256408149 -8.631375e-01 -0.800620325 -0.739733508 -0.687837996
## 211 -0.7594924415 -7.029032e-01 -0.645738231 -0.589160197 -0.532814225
## 212 0.0499767471 1.169075e-01 0.189254502 0.252843534 0.318915562
## 213 -0.2931353379 -2.404628e-01 -0.193921856 -0.152744738 -0.109332020
## 214 0.0890871382 1.577640e-01 0.228323058 0.298840729 0.364492773
## 215 -0.1710284512 -9.235373e-02 -0.010696120 0.067480016 0.141577149
## 216 1.6420038019 1.720470e+00 1.815371401 1.921583133 2.025883584
## 217 -1.0102453029 -9.438583e-01 -0.879007748 -0.814738116 -0.747019534
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## 219 -0.2397228970 -1.763841e-01 -0.113272419 -0.052679986 0.015190512
## 220 0.3543357240 4.050534e-01 0.452083682 0.499791317 0.554786060
## 221 -1.8444557435 -1.769999e+00 -1.681387559 -1.590192690 -1.509205798
## 222 1.9337288899 1.994495e+00 2.052408570 2.111935573 2.168433538
## 223 -0.6082247041 -5.330571e-01 -0.457846486 -0.385360264 -0.316704636
## 224 -1.3941678846 -1.342229e+00 -1.292242743 -1.237429250 -1.184224704
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## 226 -0.2963705641 -2.324300e-01 -0.166706262 -0.099189835 -0.029783709
## 227 0.6644234315 7.239370e-01 0.794104565 0.873441720 0.954527708
## 228 0.5833438738 6.343358e-01 0.690466805 0.753711772 0.814126371
## 229 -1.8294975782 -1.731675e+00 -1.628861792 -1.528693619 -1.437057281
## 230 -1.1469502714 -1.082947e+00 -1.017707776 -0.950419675 -0.873976067
## 231 0.5980783148 6.612014e-01 0.725687977 0.789334652 0.853698246
## 232 0.6790572100 7.475454e-01 0.820103699 0.895671659 0.971553806
## 233 -0.6654912852 -6.076390e-01 -0.546160889 -0.484232309 -0.414057330
## 234 -1.2134010881 -1.156133e+00 -1.100106953 -1.039273350 -0.969147473
## 235 1.8518780998 1.903944e+00 1.965537860 2.034482331 2.107409676
## 236 -0.6819778945 -6.263397e-01 -0.584741462 -0.538552580 -0.452509221
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## 240 -1.1588267914 -1.111010e+00 -1.061277650 -1.008643506 -0.952586526
## 241 0.2535599424 3.174680e-01 0.386607887 0.459250638 0.528818233
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## 248 -0.5921898073 -5.288034e-01 -0.466941850 -0.406618694 -0.335327646

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## 249 -1.9280387979 -1.869018e+00 -1.809181341 -1.748161540 -1.698269682
## 250 -0.4118404732 -3.461883e-01 -0.274578267 -0.199218625 -0.138242703
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## 252 -0.6505256814 -5.949846e-01 -0.518110792 -0.433477740 -0.348652492
## 253 -0.2994108079 -2.258211e-01 -0.143843562 -0.057633296 0.029463229
## 254 -0.3294165978 -2.749543e-01 -0.217942189 -0.158785745 -0.092736365
## 255 -0.6367453798 -5.666227e-01 -0.497929315 -0.424903926 -0.351339212
## 256 0.5405650104 5.938517e-01 0.650954981 0.713066314 0.767485367
## 257 -0.5791302420 -5.293116e-01 -0.477590190 -0.425569298 -0.374005550
## 258 -0.2031039810 -1.336522e-01 -0.054374949 0.027946782 0.109080345
## 259 -1.7628343429 -1.707372e+00 -1.651409029 -1.594467797 -1.532695700
## 260 0.3013938734 3.617333e-01 0.425397014 0.490330048 0.555054081
## 261 -0.9836886861 -8.942461e-01 -0.806890359 -0.723623928 -0.634152480
## 262 -2.0684646253 -1.998393e+00 -1.926686204 -1.849185406 -1.783342487
## 263 0.5207945472 5.715808e-01 0.628979701 0.691114560 0.755321945
## 264 -0.3283539189 -2.490521e-01 -0.171221406 -0.097403432 -0.027892335
## 265 1.5775923429 1.629260e+00 1.687863621 1.748800533 1.812547329
## 266 -0.1228295697 -6.079521e-02 0.004954359 0.073809906 0.151226204
## 267 -1.1312740336 -1.073716e+00 -1.013860235 -0.951433490 -0.877319521
## 268 1.5955625212 1.655857e+00 1.715963546 1.769905042 1.830769568
## 269 0.6199281492 6.811449e-01 0.743019395 0.799277932 0.861216626
## 270 1.2142160714 1.284091e+00 1.354810534 1.426540010 1.489688899
## 271 0.4528064372 5.136366e-01 0.575926801 0.648642449 0.708506076
## 272 -1.8404861777 -1.782255e+00 -1.724539653 -1.660835943 -1.597829658
## 273 -0.8555685909 -7.983279e-01 -0.733013767 -0.657030303 -0.580812104
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## 275 -1.8334382848 -1.785448e+00 -1.733309869 -1.676854623 -1.609156854
## 276 1.8740308209 1.943964e+00 2.020708723 2.096635971 2.173360719
## 277 -2.0193859267 -1.958809e+00 -1.896292101 -1.831376627 -1.775682165
## 278 -0.5166835074 -4.472763e-01 -0.374430752 -0.298786861 -0.221305030
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## 283 1.3644746900 1.441308e+00 1.512737218 1.575753641 1.629812756
## 284 -1.2436831128 -1.186358e+00 -1.130699189 -1.078008476 -1.031970651
## 285 1.0573991729 1.128601e+00 1.199977107 1.269269582 1.337229579
## 286 -0.9915336334 -9.376180e-01 -0.876951983 -0.812686428 -0.741403506
## 287 -0.1570341524 -1.042603e-01 -0.048892871 0.016589153 0.082848641
## 288 -0.1897042985 -1.292481e-01 -0.069539153 -0.008300129 0.063834626
## 289 0.2224661916 2.752159e-01 0.328597701 0.382086291 0.436359406
## 290 0.7049449775 7.788920e-01 0.859457745 0.942071002 1.022724081
## 291 -0.1795473773 -1.059359e-01 -0.019303524 0.074089428 0.156355167
## 292 -1.3311520260 -1.276312e+00 -1.228971593 -1.177473039 -1.111402839
## 293 1.1498847470 1.207069e+00 1.266622436 1.326563444 1.386930820
## 294 -0.1103769816 -4.335362e-02 0.025862284 0.089640222 0.149730819
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## 297 -2.0513748601 -1.994403e+00 -1.931557364 -1.873328024 -1.815228443
## 298 1.9055532630 1.965820e+00 2.026806085 2.087095617 2.146311964
## 299 -0.6503088378 -5.801953e-01 -0.502478756 -0.421062035 -0.339013943
## 300 -0.4553523948 -3.873464e-01 -0.320876151 -0.245625693 -0.165797455
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## 302 -0.7836279832 -7.244026e-01 -0.656954279 -0.579270994 -0.504198197

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## 303 -1.4337315241 -1.348816e+00 -1.266286228 -1.190437178 -1.118536582
## 304 -1.7485438170 -1.665729e+00 -1.585626878 -1.499553197 -1.402610101
## 305 -0.0434292918 2.333316e-02 0.079172677 0.132587126 0.189906772
## 306 0.7852886605 8.453197e-01 0.908074985 0.967525297 1.037210294
## 307 -0.5201242245 -4.573639e-01 -0.398599025 -0.338134435 -0.276656870
## 308 0.0023264976 8.511267e-02 0.177509379 0.266714197 0.338461736
## 309 0.2174022379 2.677838e-01 0.317833192 0.373647090 0.421682684
## 310 -0.6077164890 -5.472310e-01 -0.485221618 -0.421508130 -0.357931352
## 311 1.2812385325 1.349093e+00 1.418781080 1.477062150 1.541708039
## 312 -1.4838667571 -1.418346e+00 -1.353705194 -1.285349849 -1.214134540
## 313 0.5633687542 6.296703e-01 0.695325215 0.761042348 0.826591862
## 314 1.2651755151 1.324727e+00 1.383175975 1.440499246 1.499806196
## 315 0.0468728943 1.077513e-01 0.168047525 0.232457858 0.285708277
## 316 -0.3984376451 -3.243669e-01 -0.242885697 -0.159772739 -0.081307384
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## 318 0.1516996748 2.243337e-01 0.302123384 0.381088330 0.457159446
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## 324 -1.0732048701 -1.007561e+00 -0.942977631 -0.879852104 -0.811182982
## 325 -1.3314164184 -1.268900e+00 -1.201574712 -1.131559576 -1.060831042
## 326 0.8296934808 8.987257e-01 0.969684444 1.043339140 1.118277838
## 327 2.1063270167 2.173666e+00 2.225802892 2.261264630 2.312450709
## 328 -1.9869776647 -1.911496e+00 -1.830115839 -1.745012335 -1.658700149
## 329 -1.6098455500 -1.555125e+00 -1.499993811 -1.441217204 -1.377767344
## 330 -1.3821552987 -1.313421e+00 -1.243945907 -1.174192197 -1.103533801
## 331 -0.7360091488 -6.697189e-01 -0.602376753 -0.536316107 -0.473406438
## 332 -1.2805973667 -1.181028e+00 -1.068239612 -0.961193211 -0.852793320
## 333 0.0147615482 9.624550e-02 0.181772489 0.275466986 0.349455089
## 334 0.2140833746 2.731070e-01 0.333861424 0.393942440 0.453068090
## 335 -1.5920904051 -1.522156e+00 -1.450820442 -1.383895884 -1.314754796
## 336 0.1602045724 2.238006e-01 0.290239176 0.362975021 0.430707299
## 337 -0.6149260986 -5.601632e-01 -0.500046006 -0.438806872 -0.380375322
## 338 -2.4525968969 -2.370561e+00 -2.283763693 -2.196457858 -2.112202954
## 339 0.2516061531 3.244532e-01 0.403461269 0.489119738 0.574875913
## 340 -0.6474583919 -5.883414e-01 -0.525014036 -0.459414139 -0.390723948
## 341 -1.0634632377 -1.013031e+00 -0.962416737 -0.909860299 -0.855839570
## 342 -1.6239010823 -1.576308e+00 -1.529640415 -1.483313750 -1.435128523
## 343 -0.1096705410 -5.481430e-02 0.005231930 0.074704458 0.140025195
## 344 -0.9722565154 -8.953510e-01 -0.818486079 -0.742810992 -0.668597796
## 345 -0.1517491938 -8.766280e-02 -0.020766594 0.048530558 0.112743593
## 346 -0.4612524959 -4.067810e-01 -0.349353531 -0.288409335 -0.232048425
## 347 -2.0031145233 -1.950162e+00 -1.893632698 -1.834041750 -1.772394141
## 348 1.2833130790 1.357878e+00 1.432611556 1.493410466 1.550664516
## 349 -1.0384855769 -9.858944e-01 -0.931074200 -0.873430434 -0.812524237
## 350 -0.3812480231 -3.165797e-01 -0.249198792 -0.181293108 -0.113237949
## 351 -0.2500071900 -1.920848e-01 -0.128542215 -0.055050405 0.010350372
## 352 -0.7761285883 -7.102711e-01 -0.639192305 -0.573211386 -0.499750575
## 353 -0.8031977294 -7.348834e-01 -0.655932724 -0.577349524 -0.506295671
## 354 -1.1275065009 -1.067928e+00 -1.009008021 -0.952727683 -0.899285107
## 355 -0.0098493088 7.192907e-02 0.156874437 0.241956538 0.320868058
## 356 -0.5493796032 -4.905797e-01 -0.434022323 -0.380009130 -0.320952951

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## 357 -0.7063623377 -6.544519e-01 -0.600975571 -0.544420491 -0.483145670
## 358 -1.4786996083 -1.417153e+00 -1.346257380 -1.268904874 -1.202972208
## 359 -0.3709284746 -3.053942e-01 -0.235575754 -0.161323758 -0.101660630
## 360 -2.0582401827 -1.997103e+00 -1.939864789 -1.882963608 -1.825599758
## 361 -1.6585767858 -1.589334e+00 -1.514800548 -1.437646094 -1.362604287
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## 364 0.6262179648 7.046536e-01 0.794926469 0.895871567 0.974176524
## 365 -0.6561044903 -6.133945e-01 -0.566631764 -0.518137493 -0.474838453
## 366 -2.4149732424 -2.351166e+00 -2.287610233 -2.219624495 -2.149484372
## 367 -1.9050943381 -1.852246e+00 -1.796767226 -1.739354286 -1.679626996
## 368 -0.5019276182 -4.488474e-01 -0.393647979 -0.342218131 -0.282288889
## 369 -2.1153651455 -2.054537e+00 -1.987470549 -1.917200388 -1.846573400
## 370 -1.4061952401 -1.335360e+00 -1.262554454 -1.185921016 -1.106619036
## 371 -3.0953233584 -3.035720e+00 -2.971736772 -2.911482297 -2.840391828
## 372 -0.1827500468 -1.155548e-01 -0.047880669 0.017178289 0.087054860
## 373 -1.6114166620 -1.547125e+00 -1.478217956 -1.393903078 -1.288845638
## 374 0.2017663344 2.719304e-01 0.344430068 0.416671287 0.485485526
## 375 -0.2444303274 -1.758696e-01 -0.116001596 -0.059966894 0.014206532
## 376 -2.7570845476 -2.704440e+00 -2.646045769 -2.580724848 -2.521324564
## 377 0.0958473364 1.576708e-01 0.221475949 0.285734777 0.350233312
## 378 1.4578493995 1.510781e+00 1.567326175 1.628866017 1.699589933
## 379 0.5118190725 5.892803e-01 0.663112691 0.734269188 0.813443544
## 380 -1.6492715698 -1.592235e+00 -1.533128745 -1.475626982 -1.425354656
## 381 -1.2053090967 -1.141519e+00 -1.077738589 -1.008598357 -0.928165744
## 382 -0.4614935182 -3.938813e-01 -0.319592143 -0.230190714 -0.120428134
## 383 0.4998336608 5.675665e-01 0.637475563 0.716609876 0.797351411
## 384 -1.4717733082 -1.379333e+00 -1.292126394 -1.216386951 -1.149385833
## 385 -1.6631182115 -1.603603e+00 -1.537854278 -1.465160354 -1.386535221
## 386 -1.0442307284 -9.760204e-01 -0.907907362 -0.832488703 -0.747689481
## 387 -1.9587219910 -1.893661e+00 -1.818649022 -1.737420322 -1.664602183
## 388 -0.8246172659 -7.522498e-01 -0.677041819 -0.603087853 -0.523487697
## 389 0.1440215382 2.064538e-01 0.271959515 0.339301173 0.407109378
## 390 -0.1916094107 -1.254606e-01 -0.052996304 0.021409683 0.093581059
## 391 -0.0369923455 2.811566e-02 0.101980023 0.182888184 0.268157875
## 392 0.9007078682 9.519555e-01 1.013516019 1.081997071 1.142940188
## 393 -1.8719490578 -1.814731e+00 -1.756122466 -1.695707350 -1.629507774
## 394 -1.1875648242 -1.136740e+00 -1.083802196 -1.020167183 -0.962795834
## 395 -0.9666871570 -9.037014e-01 -0.837171922 -0.765658863 -0.689089023
## 396 1.3986859922 1.466871e+00 1.536605355 1.605703903 1.668761728
## 397 0.1236607460 1.782267e-01 0.229537499 0.281706468 0.336039457
## 398 -0.2526424335 -2.005676e-01 -0.145783278 -0.089223971 -0.031263813
## 399 -2.0552841924 -1.995374e+00 -1.934653064 -1.871828298 -1.806938132
## 400 -0.9287967077 -8.466979e-01 -0.760201876 -0.676179305 -0.587693057
## 401 0.9578611791 1.033639e+00 1.107342878 1.182444571 1.256539021
## 402 0.8288308724 9.165145e-01 1.008232230 1.106193879 1.204998746
## 403 0.9611700392 1.046000e+00 1.133846063 1.215520508 1.309322890
## 404 0.3996130468 4.815014e-01 0.570307971 0.666137321 0.767431344
## 405 -1.6190756150 -1.538260e+00 -1.456229619 -1.375797368 -1.297620326
## 406 -0.0673003143 2.136142e-02 0.104667939 0.184059530 0.273441593
## 407 -1.7043342545 -1.631681e+00 -1.558488253 -1.483413112 -1.405313243
## 408 -1.5060822167 -1.430074e+00 -1.348406823 -1.257817659 -1.164250382
## 409 0.5045725341 5.801855e-01 0.658637034 0.733949458 0.817519940
## 410 -1.4028015080 -1.339535e+00 -1.260179692 -1.168056671 -1.068319202

```

```

## 411  0.6254977282  7.011056e-01  0.777283365  0.853013142  0.922475871
## 412  0.5594823130  6.486289e-01  0.740351924  0.828741307  0.909266464
## 413 -0.2805912385 -1.982947e-01 -0.106648163 -0.029474666  0.045759348
## 414 -1.1650235626 -1.096508e+00 -1.022419222 -0.940297002 -0.843206126
## 415 -0.0370987906  5.265756e-02  0.141249829  0.225926286  0.305677961
## 416 -1.1794047462 -1.102875e+00 -1.020995951 -0.929482936 -0.845293478
## 417  0.6516558945  7.312805e-01  0.812843978  0.886778694  0.966391505
## 418 -0.2034721659 -1.266099e-01 -0.044503782  0.046145117  0.131949425
## 419 -0.8086952534 -7.297372e-01 -0.644808019 -0.552548195 -0.468933034
## 420 -0.5766651569 -4.985630e-01 -0.416090419 -0.338925904 -0.248213244
## 421 -1.1383024384 -1.045518e+00 -0.956574658 -0.871108697 -0.778982020
## 422 -0.4812557282 -3.969603e-01 -0.308456586 -0.225993788 -0.142641037
## 423  0.2277606729  3.034724e-01  0.380771778  0.460405618  0.545870936
## 424 -0.4674000510 -3.756213e-01 -0.284397857 -0.195329031 -0.109656521
## 425 -0.1992203007 -1.215167e-01 -0.044673179  0.045160892  0.146435290
## 426  0.4664251999  5.676457e-01  0.665229621  0.759053969  0.853625883
## 427 -1.3079906317 -1.233556e+00 -1.144200182 -1.045614636 -0.964525393
## 428  0.3897095281  4.729262e-01  0.567002293  0.673116968  0.781792262
## 429  0.0394220916  1.261372e-01  0.216810980  0.318623027  0.416859021
## 430 -0.3884449055 -3.077100e-01 -0.228014078 -0.146079275 -0.060450874
## 431 -1.7017557687 -1.626785e+00 -1.552359569 -1.475669773 -1.384117083
## 432 -1.5716148471 -1.495590e+00 -1.420784510 -1.347915953 -1.273858865
## 433 -0.1780575517 -8.651747e-02  0.010325749  0.109179793  0.206157142
## 434 -0.7325019422 -6.553308e-01 -0.570568359 -0.486445555 -0.389962434
## 435 -0.9373304127 -8.656900e-01 -0.777917353 -0.678557122 -0.574473582
## 436 -1.0372083927 -9.546990e-01 -0.864492399 -0.765634104 -0.680664983
## 437  0.8672519648  9.553590e-01  1.049618440  1.147256087  1.245680548
## 438 -0.3106496701 -2.273857e-01 -0.142253224 -0.057728776  0.023645743
## 439  0.2738931799  3.512731e-01  0.440153100  0.533081677  0.619081467
## 440 -1.3560623927 -1.281310e+00 -1.200825629 -1.116250578 -1.035199627
## 441 -1.3582250871 -1.284181e+00 -1.208867638 -1.126260291 -1.039870070
## 442 -1.4026813371 -1.321452e+00 -1.241438721 -1.151379525 -1.054999033
## 443 -0.1817017565 -7.850636e-02  0.015774931  0.097318167  0.166725739
## 444  1.2098102376  1.287469e+00  1.368467930  1.451461644  1.533867067
## 445 -0.0495798619  3.321789e-02  0.124330736  0.223074690  0.327795817
## 446  1.1769946505  1.251610e+00  1.326188024  1.410604713  1.501156474
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## 450 -0.3241884165 -2.352112e-01 -0.152895123 -0.074174839  0.020869982
## 451 -0.8240015345 -7.388440e-01 -0.655708438 -0.575235445 -0.496974224
## 452 -1.7901371508 -1.710414e+00 -1.624729795 -1.537237024 -1.442400001
## 453  0.4325955997  5.218847e-01  0.617755785  0.718121009  0.818109040
## 454 -2.0093196997 -1.940925e+00 -1.867064642 -1.794964045 -1.718952028
## 455 -0.7383325560 -6.564352e-01 -0.576417799 -0.499066279 -0.423221638
## 456  1.4905297579  1.566319e+00  1.637903519  1.714372481  1.804684498
## 457 -0.4344033370 -3.613469e-01 -0.281784465 -0.187437349 -0.082582665
## 458 -1.6205187156 -1.545236e+00 -1.460730850 -1.372917017 -1.274246052
## 459 -0.7601962109 -6.778762e-01 -0.602476181 -0.526474106 -0.440430723
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## 464 -0.1787287724 -1.040309e-01 -0.028343637  0.050683436  0.145206223

```

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## 465 1.9504701230 2.039025e+00 2.128499131 2.224140346 2.316496795
## 466 0.1531946378 2.285053e-01 0.306366734 0.386297399 0.467392918
## 467 -2.5134771098 -2.436319e+00 -2.356747197 -2.271792184 -2.184608383
## 468 -0.9499380211 -8.670218e-01 -0.773543521 -0.676335504 -0.581908970
## 469 -0.4289083472 -3.514758e-01 -0.271624640 -0.185518123 -0.090944812
## 470 -2.2397387789 -2.155637e+00 -2.065135247 -1.973518281 -1.886380383
## 471 -2.2745172603 -2.188488e+00 -2.101137182 -2.017868224 -1.926597121
## 472 -2.9467020954 -2.865657e+00 -2.777716162 -2.678175174 -2.579396020
## 473 1.9268103419 2.007675e+00 2.101525649 2.201840666 2.302015036
## 474 -1.3078128447 -1.222160e+00 -1.143450831 -1.069712223 -0.985888933
## 475 -0.9448643746 -8.640249e-01 -0.780491362 -0.696471521 -0.614401642
## 476 -0.1035226510 -3.588414e-02 0.031876391 0.104335729 0.176076915
## 477 -0.4787716918 -3.937180e-01 -0.310218199 -0.226890585 -0.137615801
## 478 -0.2197821998 -1.388410e-01 -0.050966867 0.023340952 0.097393729
## 479 -1.4025920388 -1.323985e+00 -1.239312814 -1.150472629 -1.059886234
## 480 -1.8598333876 -1.778432e+00 -1.686228424 -1.585477657 -1.479886101
## 481 1.4724925194 1.542085e+00 1.617368601 1.692246390 1.775282885
## 482 -0.8384521124 -7.641966e-01 -0.684747441 -0.600251932 -0.514846745
## 483 -0.6435404637 -5.660120e-01 -0.477079678 -0.380314861 -0.280375206
## 484 0.4641775100 5.546949e-01 0.644036456 0.729437478 0.821613874
## 485 1.1478120124 1.224955e+00 1.311308005 1.402729922 1.495361903
## 486 0.1949611209 2.814809e-01 0.370914007 0.463660775 0.543505351
## 487 1.5525959061 1.625327e+00 1.702147221 1.781199648 1.866951915
## 488 -0.1731426401 -9.215493e-02 -0.003482581 0.092180341 0.193068015
## 489 -0.3840652558 -3.051969e-01 -0.233963743 -0.156624464 -0.077382573
## 490 1.5189617457 1.596379e+00 1.673643252 1.749122777 1.824490275
## 491 -0.3215244835 -2.492033e-01 -0.175526265 -0.096964312 -0.010699901
## 492 -0.4280072091 -3.438574e-01 -0.252155141 -0.157424968 -0.064710279
## 493 -1.5249329293 -1.425035e+00 -1.334461780 -1.252138130 -1.169069602
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## 495 -0.3837869789 -3.035221e-01 -0.221565029 -0.134414283 -0.052258033
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## 498 -1.6833976166 -1.606153e+00 -1.527579104 -1.447772527 -1.363892231
## 499 -0.7979676310 -7.144226e-01 -0.626095806 -0.540079997 -0.454309171
## 500 -0.2732506588 -1.904694e-01 -0.113654378 -0.028707533 0.062797187
## 501 -0.8914242003 -8.173587e-01 -0.744884437 -0.668243400 -0.568739598
## 502 0.0138810662 9.448785e-02 0.180655728 0.262258410 0.339297558
## 503 -0.2246993409 -1.434522e-01 -0.052398003 0.045566901 0.141955478
## 504 -0.6818278763 -6.013298e-01 -0.520170370 -0.440110386 -0.359209965
## 505 -0.2656952822 -1.794745e-01 -0.091124206 -0.004754683 0.088660604
## 506 0.2073928236 3.039726e-01 0.406154468 0.501694047 0.607973077
## 507 -0.1174287161 -3.742941e-02 0.041259837 0.121437045 0.207841107
## 508 -0.6314716107 -5.308926e-01 -0.427908133 -0.329149381 -0.239804230
## 509 -0.6055879158 -5.287429e-01 -0.437500429 -0.342554564 -0.264399735
## 510 -0.2114456920 -1.257052e-01 -0.043557360 0.036619198 0.118614887
## 511 -1.3408647532 -1.262517e+00 -1.174696257 -1.079708557 -0.981417363
## 512 -0.0869543583 3.157976e-03 0.095471495 0.194259166 0.292188522
## 513 -0.7756234562 -7.005074e-01 -0.620283798 -0.530084852 -0.448365086
## 514 -0.8506760591 -7.646119e-01 -0.672636887 -0.576872076 -0.481019574
## 515 -1.5844145679 -1.491821e+00 -1.399661039 -1.307748456 -1.208370856
## 516 -1.4285476646 -1.343301e+00 -1.257334394 -1.173494776 -1.085579162
## 517 -1.3079977338 -1.223232e+00 -1.131868945 -1.035031584 -0.935066840
## 518 -0.2705659214 -1.824997e-01 -0.091711619 0.001125812 0.091105710

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```

## 519 -1.4078996847 -1.328073e+00 -1.242315039 -1.160955032 -1.069420657
## 520 0.1986203511 2.726915e-01 0.351049553 0.437311014 0.524926427
## 521 -1.9474344286 -1.878557e+00 -1.803245040 -1.723143593 -1.637335679
## 522 -0.4404595849 -3.598484e-01 -0.275956584 -0.191608768 -0.091851834
## 523 0.9580194890 1.034259e+00 1.111691840 1.190804124 1.283559891
## 524 0.1186718858 1.985582e-01 0.283337003 0.373269274 0.467923538
## 525 -1.0622528585 -9.792433e-01 -0.886095692 -0.783401001 -0.669541897
## 526 -1.3744140906 -1.286761e+00 -1.197414651 -1.108026157 -1.020053248
## 527 -0.6543842236 -5.868163e-01 -0.511165471 -0.430153195 -0.347066608
## 528 -0.8015909714 -7.247346e-01 -0.648411020 -0.572886284 -0.497285834
## 529 1.0068017277 1.085672e+00 1.169686780 1.253842269 1.350883651
## 530 0.1784522810 2.582244e-01 0.336147274 0.415715290 0.497722330
## 531 -1.1738523833 -1.086558e+00 -0.989633427 -0.886744009 -0.783780245
## 532 -0.7020419166 -6.209306e-01 -0.538053165 -0.456248992 -0.370041322
## 533 -1.4673004606 -1.395121e+00 -1.322922659 -1.245296022 -1.161220548
## 534 1.7277394745 1.803072e+00 1.874982191 1.944342342 2.013417670
## 535 -0.7152453368 -6.311157e-01 -0.541029190 -0.445196804 -0.350994986
## 536 -1.0192294912 -9.376791e-01 -0.851461649 -0.759879266 -0.673219019
## 537 -0.2548042804 -1.715268e-01 -0.079143002 0.020034165 0.120339707
## 538 -0.6675229933 -5.948464e-01 -0.517373081 -0.429249393 -0.336446521
## 539 1.1122545518 1.176123e+00 1.242000175 1.309556265 1.378902220
## 540 -0.4817603371 -4.089572e-01 -0.334370632 -0.254523759 -0.178924708
## 541 -0.2287430942 -1.559635e-01 -0.076115773 0.016920232 0.102614050
## 542 -2.4866175085 -2.403266e+00 -2.330002156 -2.257160019 -2.166399570
## 543 -0.7880572241 -7.130246e-01 -0.639952750 -0.565004869 -0.479049005
## 544 -0.9380087480 -8.616625e-01 -0.790822369 -0.720554913 -0.630585969
## 545 0.7075379952 7.955449e-01 0.882352458 0.965659279 1.044267570
## 546 -0.5873310947 -5.105167e-01 -0.428394951 -0.343573509 -0.252505820
## 547 -0.1534269856 -7.584936e-02 0.008604207 0.096616740 0.196277435
## 548 0.6031429673 6.947774e-01 0.788468844 0.880874286 0.970067432
## 549 -0.4288554682 -3.440357e-01 -0.251538326 -0.159074197 -0.063977812
## 550 -0.1568490962 -8.850838e-02 -0.015065904 0.064009897 0.148437118
## 551 0.1320902827 2.081151e-01 0.286831785 0.368337438 0.440714918
## 552 1.0630369429 1.144747e+00 1.227888595 1.315322740 1.396165508
## 553 -1.7169635470 -1.639431e+00 -1.558678438 -1.465182770 -1.377991947
## 554 -1.2177678195 -1.126961e+00 -1.033239841 -0.944325255 -0.846662026
## 555 0.4559703105 5.324423e-01 0.612324045 0.696126085 0.785395303
## 556 0.8581440490 9.554681e-01 1.048862807 1.142161100 1.254450780
## 557 -0.3861683472 -3.079977e-01 -0.223074041 -0.124257387 -0.032325605
## 558 -0.3388261393 -2.631990e-01 -0.185132073 -0.098907718 -0.007276468
## 559 -0.2531613861 -1.594573e-01 -0.065710025 0.025230582 0.110916815
## 560 -2.7372258840 -2.658437e+00 -2.587849969 -2.514497557 -2.431035998
## 561 -1.0550769247 -9.839003e-01 -0.914585342 -0.839048479 -0.756189839
## 562 -1.2165850804 -1.123538e+00 -1.027053306 -0.931181544 -0.837596050
## 563 0.4482026407 5.225768e-01 0.599854473 0.687857045 0.790242760
## 564 0.3566431189 4.310604e-01 0.507690606 0.582993470 0.667963504
## 565 -0.2628280776 -1.748364e-01 -0.090058064 -0.008783964 0.069636241
## 566 -0.4376458424 -3.659082e-01 -0.296725364 -0.225763793 -0.149543780
## 567 -0.2906965838 -2.059879e-01 -0.123593254 -0.044685101 0.036127231
## 568 1.3697956267 1.445437e+00 1.526146984 1.610857232 1.697948872
## 569 0.1546836037 2.407295e-01 0.328655574 0.418001911 0.511128044
## 570 0.3904139726 4.800397e-01 0.571359489 0.665969155 0.752268004
## 571 -1.5487636832 -1.475243e+00 -1.398855668 -1.311051820 -1.225004084
## 572 0.7915963903 8.808796e-01 0.967963547 1.050368462 1.142509093

```

```

## 573 0.9024299076 9.834492e-01 1.058164389 1.130608837 1.219603727
## 574 -1.9964692009 -1.907187e+00 -1.813958381 -1.719578516 -1.625585492
## 575 0.6074557224 6.903156e-01 0.778818286 0.871332497 0.970716084
## 576 0.7636991750 8.320532e-01 0.906110121 0.984527021 1.065725848
## 577 -1.0470254254 -9.773790e-01 -0.899370406 -0.814454209 -0.726593407
## 578 -2.2547601506 -2.184034e+00 -2.113388211 -2.032744758 -1.942738704
## 579 0.8438803934 9.273637e-01 1.004670805 1.087845648 1.180161325
## 580 -0.4975473245 -4.199441e-01 -0.338765587 -0.256648691 -0.163249404
## 581 -0.4015371928 -3.330986e-01 -0.255951405 -0.158193842 -0.068923073
## 582 -0.0923340231 -1.172344e-02 0.076583806 0.169407791 0.262919839
## 583 -0.2145578294 -1.392948e-01 -0.050763615 0.044152249 0.138953544
## 584 -0.8182710895 -7.352753e-01 -0.649843528 -0.560680210 -0.466282080
## 585 -0.1660191922 -8.295453e-02 -0.009670382 0.059796353 0.145572104
## 586 0.7647884817 8.385498e-01 0.914842978 0.992347058 1.074338380
## 587 -0.3070871045 -2.022935e-01 -0.098570502 -0.007170130 0.072431996
## 588 1.1333800014 1.227815e+00 1.314914949 1.394367275 1.474593431
## 589 0.4326048211 5.171316e-01 0.594179833 0.6666648825 0.752544264
## 590 0.4347909898 4.971922e-01 0.560721361 0.638677036 0.715161829
## 591 0.2551953427 3.409280e-01 0.424367668 0.506457938 0.588092746
## 592 0.1966877808 2.698782e-01 0.342272702 0.416121683 0.491155004
## 593 -1.1699891025 -1.090834e+00 -1.005066966 -0.908152294 -0.812429747
## 594 -2.6787872158 -2.584385e+00 -2.489305122 -2.392977358 -2.291355812
## 595 -1.8790039485 -1.780484e+00 -1.684135428 -1.592693800 -1.506589105
## 596 -1.8990626370 -1.835847e+00 -1.769501639 -1.696414156 -1.628420523
## 597 1.2328125432 1.311642e+00 1.395013430 1.475475804 1.555080201
## 598 -1.2433140904 -1.157630e+00 -1.071269993 -0.977715790 -0.880247557
## 599 -0.8215575787 -7.408506e-01 -0.652140932 -0.560412288 -0.462111430
## 600 -1.7248036351 -1.639398e+00 -1.560528033 -1.482047414 -1.389965102
## 601 -0.5145791185 -4.279883e-01 -0.336000332 -0.241822180 -0.154144456
## 602 -0.9417741341 -8.643915e-01 -0.783065204 -0.696461301 -0.619254615
## 603 0.2933290131 3.681485e-01 0.440055493 0.513118529 0.599533971
## 604 -0.7886691204 -7.016416e-01 -0.614243801 -0.521481257 -0.435088012
## 605 1.6068040573 1.689923e+00 1.765074840 1.836398950 1.908017270
## 606 -0.4492958448 -3.639599e-01 -0.265448426 -0.159034999 -0.051450223
## 607 0.2042008068 2.843789e-01 0.368578909 0.455772356 0.544511208
## 608 -2.6107730124 -2.532595e+00 -2.455652014 -2.381040838 -2.308912749
## 609 -0.6418799547 -5.543015e-01 -0.460095791 -0.366944469 -0.281309693
## 610 0.4390582331 5.296966e-01 0.623289132 0.720021690 0.815398013
## 611 -0.1510097256 -6.896922e-02 0.024852848 0.123564731 0.218675741
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## 614 0.2005594280 2.787784e-01 0.359644568 0.439236971 0.514518923
## 615 0.6009083535 6.719872e-01 0.740099121 0.820141292 0.907983532
## 616 -0.1565473342 -7.356519e-02 0.001987913 0.072156285 0.147882413
## 617 0.0442003701 1.294435e-01 0.217374897 0.304395475 0.387750256
## 618 1.2426976006 1.324541e+00 1.407095418 1.486329736 1.567305889
## 619 0.0275569269 1.010059e-01 0.184534105 0.280074441 0.363381352
## 620 0.1568083178 2.307734e-01 0.305288015 0.384382347 0.464401721
## 621 -0.0412518164 5.764235e-02 0.160133052 0.249353042 0.338302427
## 622 0.9841375436 1.066079e+00 1.150732584 1.238465502 1.328791929
## 623 0.8613263874 9.263512e-01 0.995686651 1.069706916 1.147057715
## 624 0.5152544969 5.873184e-01 0.666314903 0.747879162 0.828740195
## 625 0.5294416199 6.157603e-01 0.702042707 0.786827002 0.869828778
## 626 -0.8413269748 -7.519121e-01 -0.667929810 -0.584758106 -0.487134281

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## 627 -0.8812964065 -8.038049e-01 -0.729601021 -0.652124500 -0.566698676
## 628  0.5946820577  6.793141e-01  0.760701813  0.842100834  0.933669536
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## 630  1.7976096312  1.885519e+00  1.965871820  2.048924812  2.143723879
## 631 -1.9948890243 -1.914578e+00 -1.832805343 -1.751297877 -1.671242613
## 632 -0.5466536294 -4.703665e-01 -0.389160955 -0.307625582 -0.213830643
## 633 -0.9863239646 -9.051631e-01 -0.815165261 -0.716391318 -0.612017346
## 634 -2.3034228669 -2.209505e+00 -2.112882690 -2.019082767 -1.932056580
## 635  2.2693132503  2.351356e+00  2.435992780  2.523982660  2.615745021
## 636  0.2698132827  3.588912e-01  0.447051537  0.526005052  0.614879551
## 637 -2.0619726150 -1.980677e+00 -1.885528971 -1.779927915 -1.702378214
## 638 -0.9295195756 -8.541555e-01 -0.771415169 -0.683034692 -0.593187667
## 639 -0.5647674007 -4.866894e-01 -0.402444577 -0.316890741 -0.235200205
## 640 -1.6741730008 -1.583126e+00 -1.491851127 -1.396973858 -1.306732631
## 641 -0.7055348929 -6.134594e-01 -0.526009995 -0.442068987 -0.346596076
## 642  0.0212308552  1.109756e-01  0.199069874  0.285469716  0.375768666
## 643  0.7644551427  8.412724e-01  0.920931095  1.006797331  1.091705031
## 644 -1.2311631649 -1.146089e+00 -1.054905779 -0.955860703 -0.853629356
## 645 -0.3642234945 -2.915806e-01 -0.218174868 -0.138929075 -0.053483587
## 646 -0.4007651223 -3.191139e-01 -0.231586745 -0.139347172 -0.044594091
## 647 -0.2930718860 -2.111763e-01 -0.133108798 -0.056810188  0.024895594
## 648 -0.8664053862 -7.780890e-01 -0.683567420 -0.592906113 -0.495059446
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## 674 -0.9842330875 -9.043160e-01 -0.824468349 -0.741416949 -0.664148908
## 675 -0.7306087307 -6.533216e-01 -0.574423982 -0.490970521 -0.411451131
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## 681  0.0931848138  1.786370e-01  0.261684031  0.342918566  0.423311046
## 682 -0.2015525957 -1.286276e-01 -0.058399282  0.012755676  0.096299299
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## 699 -0.2011087223 -1.196055e-01 -0.036087555  0.048771515  0.134459105
## 700 -0.7276779074 -6.489692e-01 -0.569337211 -0.489516843 -0.409443605
## 701  0.3663858050  4.524502e-01  0.558690304  0.676736832  0.773580923
## 702  0.8646827817  9.480195e-01  1.040449856  1.140522025  1.246330018
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## 704  1.0904367904  1.182311e+00  1.274550255  1.365494614  1.452872717
## 705  0.9147737694  9.987665e-01  1.087019049  1.169354174  1.253229392
## 706 -1.1836307640 -1.105026e+00 -1.023218315 -0.939462456 -0.854780003
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## 708  2.6958587780  2.785550e+00  2.870692900  2.951690303  3.032292993
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## 714  0.3009744956  3.798742e-01  0.462478172  0.551499570  0.634688739
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## 722 -1.5904172103 -1.499886e+00 -1.414383713 -1.325264782 -1.237720817
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## 724 -1.0845366077 -1.009615e+00 -0.935775341 -0.860324772 -0.774481387
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## 735 -0.0118439211 7.067085e-02 0.152300576 0.233299605 0.319132152
## 736 -0.0723011166 1.124097e-02 0.099516825 0.188771603 0.278145873
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## 753 0.1097733411 1.956718e-01 0.283960815 0.373156822 0.462086419
## 754 -1.3481517300 -1.273144e+00 -1.194181528 -1.109588047 -1.019397411
## 755 -0.3016628343 -2.270020e-01 -0.151325669 -0.074153935 0.002098160
## 756 0.9636647347 1.038502e+00 1.115614231 1.193538394 1.272180360
## 757 0.7201771339 8.203326e-01 0.918719289 1.013920900 1.109315445
## 758 -0.8461145067 -7.652272e-01 -0.684025148 -0.604002005 -0.508342115
## 759 -1.0531782285 -9.792377e-01 -0.901452085 -0.820940788 -0.738639123
## 760 -0.4856823433 -4.171065e-01 -0.346513495 -0.267356307 -0.176664460
## 761 -1.6365613197 -1.545680e+00 -1.453813773 -1.355759148 -1.273827232
## 762 -0.2352656445 -1.503668e-01 -0.066729585 0.015816786 0.102067576
## 763 -0.0360245676 5.940775e-02 0.151792436 0.242031503 0.338931287
## 764 -1.6618480436 -1.587824e+00 -1.503537564 -1.408261139 -1.320353912
## 765 0.5422943895 6.258964e-01 0.715089344 0.809157476 0.906845103
## 766 1.0086670187 1.088310e+00 1.159615890 1.235965448 1.316480434
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## 768 0.1296461480 2.094723e-01 0.290177144 0.374814754 0.464670172
## 769 -0.3397386330 -2.639910e-01 -0.186100809 -0.111051245 -0.025369494
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## 771 1.0165051594 1.097102e+00 1.179165264 1.262829719 1.352238384
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## 773 1.4188354053 1.505177e+00 1.596214958 1.688149993 1.771554287
## 774 1.1931148859 1.272510e+00 1.355965729 1.442289226 1.523958577
## 95 96 97 98 99
## 0 -0.882112696 -8.680229e-01 -0.854397995 -0.841621549 -0.8294330305
## 1 -1.362710286 -1.356009e+00 -1.347746013 -1.338884495 -1.3299036091
## 2 -1.980783932 -1.980396e+00 -1.980108929 -1.979861519 -1.9796107753
## 3 -2.140958717 -2.126647e+00 -2.112260213 -2.097751263 -2.0827303906
## 4 1.461619780 1.468862e+00 1.475908558 1.483015225 1.4896098189
## 5 -0.484923233 -4.787690e-01 -0.473192062 -0.467794661 -0.4623245556
## 6 0.008583728 9.125855e-03 0.009681028 0.010240919 0.0108083527
## 7 -0.422561328 -5.300349e-01 -0.557434287 -0.546538809 -0.5387797725
## 8 -1.453635563 -1.451612e+00 -1.449578787 -1.447590028 -1.4456715006
## 9 -0.563376123 -5.603012e-01 -0.557210228 -0.552955321 -0.5472953897
## 10 -0.971997332 -9.623627e-01 -0.952197811 -0.941627420 -0.9303141327
## 11 0.494114100 4.979386e-01 0.501742160 0.505578001 0.5094655134
## 12 -2.515474103 -2.509705e+00 -2.503133699 -2.496239377 -2.4892521863

```

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## 13 -1.555878133 -1.555282e+00 -1.554694202 -1.554105679 -1.5535092276
## 14 -1.965563557 -1.958465e+00 -1.951384391 -1.944244010 -1.9370074454
## 15 -1.129950006 -1.124751e+00 -1.119772608 -1.114838240 -1.1098374040
## 16 -2.533899557 -2.527617e+00 -2.521747608 -2.515994328 -2.5101635494
## 17 -1.655570788 -1.653955e+00 -1.652348950 -1.650728927 -1.6490870812
## 18 -1.190814952 -1.188335e+00 -1.185842996 -1.183603799 -1.1816595629
## 19 -0.564075794 -5.610531e-01 -0.557934675 -0.554759971 -0.5515425031
## 20 -0.452559688 -4.511039e-01 -0.449767977 -0.448464780 -0.4471440278
## 21 -0.097449762 -9.700379e-02 -0.096549364 -0.096091078 -0.0956266182
## 22 0.518038172 5.257419e-01 0.533315697 0.540182618 0.5464143959
## 23 -0.851429071 -8.449479e-01 -0.839140828 -0.833548099 -0.8278800354
## 24 -0.359158635 -3.531127e-01 -0.347035131 -0.341147223 -0.3355563776
## 25 -2.237392336 -2.231414e+00 -2.225466958 -2.219469595 -2.2133914450
## 26 -0.443340444 -4.364693e-01 -0.429562306 -0.422040719 -0.4135508452
## 27 -0.615609464 -6.057079e-01 -0.595773490 -0.585754606 -0.5773234611
## 28 0.085213149 1.032708e-01 0.124181234 0.147464592 0.1719379668
## 29 -1.819894398 -1.817845e+00 -1.815784558 -1.868655601 -1.9260411766
## 30 0.574830143 5.939267e-01 0.614671377 0.637432220 0.6614835073
## 31 -0.363490289 -3.473744e-01 -0.329713907 -0.311461403 -0.2924716076
## 32 -2.177234574 -2.174141e+00 -2.171567332 -2.169980343 -2.1694386297
## 33 0.245936088 2.610535e-01 0.277254877 0.293968218 0.3109066924
## 34 -1.763365331 -1.763250e+00 -1.763133345 -1.763016061 -1.7629345138
## 35 0.021494047 3.271564e-02 0.043631505 0.054640156 0.0657970957
## 36 -2.138107341 -2.131735e+00 -2.125517053 -2.119245920 -2.1135490275
## 37 -0.592404255 -5.883297e-01 -0.584233886 -0.580103236 -0.5760815058
## 38 -1.109239167 -1.097985e+00 -1.086672441 -1.075263501 -1.0634040229
## 39 -1.293551018 -1.288541e+00 -1.283505121 -1.278426270 -1.2733934282
## 40 1.240482911 1.249406e+00 1.259491772 1.270048444 1.2807473163
## 41 -0.435137661 -4.317474e-01 -0.428702619 -0.426348533 -0.4244242755
## 42 -3.824374537 -3.818674e+00 -3.812863965 -3.807683431 -3.8031530000
## 43 0.196480606 2.094617e-01 0.222510686 0.235670575 0.2465305902
## 44 0.792878427 8.069085e-01 0.821802902 0.837097428 0.8525979763
## 45 0.061915624 6.996800e-02 0.077977560 0.086023585 0.0941779915
## 46 0.321980283 3.350321e-01 0.348152206 0.359042391 0.3681837269
## 47 -1.001668087 -9.982633e-01 -0.995165352 -0.992153283 -0.9891006404
## 48 0.602659725 6.341457e-01 0.666276152 0.698679662 0.7315196573
## 49 -0.019650236 -2.352023e-02 -0.026347535 -0.028261560 -0.0293737416
## 50 -0.426331037 -4.133582e-01 -0.399567387 -0.385062373 -0.3701236382
## 51 -0.794050677 -7.938265e-01 -0.793634478 -0.793440783 -0.7932636366
## 52 -0.4747770921 -4.723701e-01 -0.469963102 -0.467535633 -0.4650754654
## 53 0.901451069 9.050592e-01 0.908686237 0.912344083 0.9158618158
## 54 -1.481718076 -1.465072e+00 -1.446956421 -1.428268328 -1.4087910314
## 55 -1.409080089 -1.397224e+00 -1.385725696 -1.374285849 -1.3626919032
## 56 -3.241432215 -3.235265e+00 -3.229357427 -3.223508113 -3.2175800076
## 57 -1.155669720 -1.140306e+00 -1.123810452 -1.106856392 -1.0892674881
## 58 -1.460686373 -1.447772e+00 -1.435224339 -1.422570172 -1.4097455486
## 59 0.104230668 1.230668e-01 0.142593899 0.162758407 0.1833827596
## 60 -2.279780439 -2.255411e+00 -2.230649916 -2.205678762 -2.1803712384
## 61 0.057183680 6.615363e-02 0.076931932 0.088457732 0.1001387876
## 62 -0.467948458 -4.645387e-01 -0.461107546 -0.457647228 -0.4541402980
## 63 -1.322124906 -1.316134e+00 -1.310403178 -1.304731605 -1.2989836348
## 64 -1.297017226 -1.294088e+00 -1.291142778 -1.288347308 -1.2857862651
## 65 -1.815995575 -1.810899e+00 -1.805808866 -1.800675935 -1.7954738621
## 66 -1.769168433 -1.758009e+00 -1.747357356 -1.736615405 -1.7258015544

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## 67 -0.144604801 -1.400956e-01 -0.135836497 -0.131541144 -0.1275009728
## 68 -0.979985594 -9.777175e-01 -0.975268970 -0.972799653 -0.9702970746
## 69 -0.614162627 -6.201450e-01 -0.625040809 -0.628780261 -0.6313526532
## 70 0.429890739 4.374730e-01 0.445090471 0.452772645 0.4602429578
## 71 -1.745899147 -1.734043e+00 -1.721387408 -1.707167782 -1.6918187204
## 72 0.505214552 5.085286e-01 0.511790102 0.515079288 0.5184127791
## 73 -1.141696733 -1.141986e+00 -1.142275794 -1.142781339 -1.1435457760
## 74 0.356556174 3.659577e-01 0.375226700 0.384574438 0.3940480926
## 75 -1.442599244 -1.428703e+00 -1.412757663 -1.392641911 -1.3688685580
## 76 -0.409772901 -4.082641e-01 -0.406790254 -0.405303835 -0.4037973937
## 77 -1.173472566 -1.164687e+00 -1.155886422 -1.147011333 -1.1385900420
## 78 -0.961926374 -9.488447e-01 -0.933614797 -0.916600408 -0.8986960672
## 79 -0.911010785 -8.834843e-01 -0.856712310 -0.829712729 -0.8023494550
## 80 -1.646583142 -1.639606e+00 -1.632593124 -1.625520266 -1.6198934590
## 81 0.227205841 2.337223e-01 0.239532273 0.245115833 0.2507746056
## 82 -1.966784825 -1.965466e+00 -1.964139665 -1.962802365 -1.9615349487
## 83 -2.628632412 -2.626525e+00 -2.624406909 -2.622270644 -2.6202159562
## 84 0.153326395 1.547757e-01 0.156133943 0.157503766 0.1362232685
## 85 -0.398156536 -3.927848e-01 -0.387384909 -0.381939154 -0.3766838081
## 86 -0.075505507 -7.330874e-02 -0.071100490 -0.069165333 -0.0676593347
## 87 -2.275090370 -2.269903e+00 -2.264715501 -2.259484325 -2.2541826839
## 88 -1.885317848 -1.873053e+00 -1.860724724 -1.848291309 -1.8353090722
## 89 -1.676177855 -1.675054e+00 -1.673923445 -1.672783112 -1.6716274181
## 90 -0.027456402 -1.457012e-02 -0.001771775 0.010439723 0.0220685310
## 91 -0.883099614 -8.759131e-01 -0.868017632 -0.859257222 -0.8499521702
## 92 0.450295646 4.573977e-01 0.464536789 0.471253240 0.4776688430
## 93 -2.209264015 -2.165270e+00 -2.120549259 -2.075448412 -2.0297400430
## 94 -2.534465081 -2.521693e+00 -2.508855017 -2.495064680 -2.4797740612
## 95 -0.933009514 -9.244359e-01 -0.917536513 -0.911271846 -0.9049227917
## 96 -0.634793616 -6.219986e-01 -0.609136708 -0.596165482 -0.5828810742
## 97 0.393928812 4.055712e-01 0.417274466 0.429518841 0.4426169818
## 98 -2.076269032 -2.068778e+00 -2.061381234 -2.053921264 -2.0463608066
## 99 -0.918188140 -9.156863e-01 -0.913198912 -0.910690429 -0.9081481558
## 100 -1.394908951 -1.386244e+00 -1.377436826 -1.368554669 -1.3595528667
## 101 -1.496648493 -1.489466e+00 -1.482244975 -1.474963064 -1.4675830643
## 102 0.027418093 3.438821e-02 0.041405126 0.048481683 0.0556535628
## 103 -3.338191354 -3.321715e+00 -3.304450261 -3.286203443 -3.2672642789
## 104 -0.738133394 -7.298934e-01 -0.721804450 -0.713646757 -0.7061498745
## 105 -1.122703946 -1.121792e+00 -1.120894835 -1.119990391 -1.1190737646
## 106 -0.950899732 -9.434869e-01 -0.936078447 -0.928623066 -0.9210672586
## 107 -0.147245079 -1.494538e-01 -0.151800761 -0.154214838 -0.1566614326
## 108 -0.187140320 -1.786905e-01 -0.170237053 -0.161711764 -0.1530716367
## 109 -1.418596182 -1.407405e+00 -1.394302520 -1.380527254 -1.3658486623
## 110 -0.643266252 -6.384402e-01 -0.633835031 -0.629275846 -0.6246552467
## 111 -0.784010140 -7.820016e-01 -0.779982542 -0.777946330 -0.7761390801
## 112 -0.810313603 -8.020961e-01 -0.793546345 -0.784807176 -0.7759502879
## 113 -0.245977951 -2.057553e-01 -0.180067315 -0.160768601 -0.1412099273
## 114 -1.010420808 -9.921713e-01 -0.973826375 -0.955325522 -0.9362621927
## 115 -0.307565705 -3.054666e-01 -0.303373790 -0.301263199 -0.2991241783
## 116 -1.651322196 -1.648862e+00 -1.646188763 -1.643492356 -1.6407596267
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## 118 -1.599575576 -1.595315e+00 -1.591126085 -1.586901084 -1.5826191710
## 119 -0.875572253 -8.602589e-01 -0.844700380 -0.829009604 -0.8128283800
## 120 0.086495058 8.945726e-02 0.092668476 0.095906986 0.0991891195

```

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## 121  0.710486805  7.117382e-01  0.713105187  0.714483777  0.7158809371
## 122 -0.684506724 -6.802090e-01 -0.675819721 -0.671393180 -0.6669070130
## 123 -2.207754805 -2.198049e+00 -2.188292652 -2.178453275 -2.1684217843
## 124 -1.413105049 -1.393692e+00 -1.374177369 -1.354496909 -1.3385482716
## 125 -1.954387447 -1.932933e+00 -1.910238752 -1.886010093 -1.8607379393
## 126 -1.393327427 -1.393155e+00 -1.392984097 -1.392811898 -1.3926373798
## 127 -0.930679598 -9.241109e-01 -0.917576088 -0.910985741 -0.9043066191
## 128 -0.921796371 -9.050410e-01 -0.886884633 -0.867801398 -0.8513605257
## 129 -0.331072544 -3.251809e-01 -0.320109075 -0.315399584 -0.3107739431
## 130 -0.299560556 -2.918184e-01 -0.284063381 -0.276242397 -0.2683160632
## 131 -0.412014113 -3.976283e-01 -0.382128490 -0.366137832 -0.3499317754
## 132  0.498890223  5.011377e-01  0.503579694  0.506042413  0.5085383058
## 133 -0.980954346 -9.717765e-01 -0.963064104 -0.954494382 -0.9456502774
## 134 -2.899146731 -2.894652e+00 -2.890173345 -2.885671744 -2.8811095049
## 135 -0.719574194 -7.012714e-01 -0.682872870 -0.664564407 -0.6463012575
## 136 -0.599598452 -5.794950e-01 -0.559286443 -0.537939834 -0.5147985505
## 137 -1.423829498 -1.422682e+00 -1.421784395 -1.420966815 -1.4201382216
## 138 -1.337037180 -1.328715e+00 -1.320359222 -1.311932302 -1.3033918684
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## 140 -0.095812472 -8.766977e-02 -0.078937704 -0.069942343 -0.0608258115
## 141 -0.147030959 -1.416919e-01 -0.137431075 -0.133556754 -0.1469436655
## 142 -2.058330698 -2.039104e+00 -2.019961924 -2.000731375 -1.9812417849
## 143 -0.467998784 -4.457722e-01 -0.421677017 -0.396771121 -0.3715297355
## 144 -1.252446121 -1.245184e+00 -1.236405808 -1.227105956 -1.2171012804
## 145 -3.0623666969 -3.058709e+00 -3.055061649 -3.051383533 -3.0476558719
## 146  0.092706059  1.009154e-01  0.108657741  0.116276026  0.1239969323
## 147  0.436407997  4.477901e-01  0.460349741  0.473402772  0.4866316301
## 148 -2.289885933 -2.284909e+00 -2.280204709 -2.275563852 -2.2708604812
## 149 -0.379327310 -3.602593e-01 -0.341091616 -0.321080415 -0.2997381358
## 150 -2.424917111 -2.632104e+00 -2.697107992 -2.693265417 -2.6893710817
## 151  1.044682929  1.068543e+00  1.093699675  1.119424794  1.1459124584
## 152 -0.980886023 -9.756354e-01 -0.970361947 -0.965043627 -0.9596536668
## 153 -2.406498154 -2.404603e+00 -2.402534829 -2.400448930 -2.3983349325
## 154 -0.584074297 -5.749757e-01 -0.565829457 -0.556605510 -0.5482340958
## 155 -2.930728627 -2.917992e+00 -2.903099322 -2.886418210 -2.8688487866
## 156 -2.355065839 -2.344228e+00 -2.333751826 -2.323342542 -2.3127930419
## 157  1.025498720  1.027858e+00  1.030334210  1.032870157  1.0354402639
## 158 -1.536707734 -1.532642e+00 -1.528575390 -1.524474585 -1.5203185408
## 159 -1.305476747 -1.291403e+00 -1.277255325 -1.262057563 -1.2452045277
## 160 -0.659380563 -6.553798e-01 -0.651358141 -0.647506039 -0.6439198462
## 161 -1.186243842 -1.182611e+00 -1.178880503 -1.175089800 -1.1712480341
## 162  1.522910189  1.531051e+00  1.539163756  1.547345650  1.5556377569
## 163 -1.045799138 -1.038664e+00 -1.031502054 -1.024279573 -1.0169598023
## 164 -0.468297760 -4.607454e-01 -0.454064892 -0.447666889 -0.4411827040
## 165 -0.505897927 -5.025448e-01 -0.499104801 -0.495635518 -0.4921195031
## 166 -1.684637092 -1.681482e+00 -1.678928083 -1.676582990 -1.6742063090
## 167 -0.488695758 -4.717158e-01 -0.454846317 -0.437833399 -0.4212932900
## 168  1.006407471  1.007544e+00  1.008687399  1.009746138  1.0106726630
## 169 -0.021497099 -1.946858e-02 -0.017432627 -0.015379365 -0.0132984447
## 170 -0.658736014 -6.497408e-01 -0.641258041 -0.633148299 -0.6251070425
## 171 -0.777383301 -7.652125e-01 -0.752977976 -0.740639506 -0.7306291101
## 172 -0.787799487 -7.743828e-01 -0.758221933 -0.740999074 -0.7235442171
## 173 -0.845091397 -8.260235e-01 -0.806856008 -0.787525546 -0.7674344790
## 174 -0.865755122 -8.527222e-01 -0.839621089 -0.825675504 -0.8103985740

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## 175  0.631865768  6.439584e-01  0.656106393  0.668357665  0.6802658270
## 176 -0.685057697 -6.889125e-01 -0.697655456 -0.708377471 -0.7174143881
## 177 -0.106746729 -9.968716e-02 -0.092615026 -0.085482779 -0.0782544590
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## 179 -1.764725496 -1.760915e+00 -1.757196122 -1.753446135 -1.7604840847
## 180  0.776766444  7.814722e-01  0.786202460  0.790972976  0.7956066882
## 181 -2.101250249 -2.093713e+00 -2.086631886 -2.079675384 -2.0726251767
## 182  1.098979167  1.108586e+00  1.118577737  1.129409616  1.1409092554
## 183 -1.115613011 -1.102669e+00 -1.089657443 -1.076535225 -1.0629483708
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## 185 -1.224982134 -1.217527e+00 -1.210011067 -1.202431544 -1.1947499227
## 186 -1.618157921 -1.603832e+00 -1.589430430 -1.574906825 -1.5632193239
## 187 -1.536970733 -1.535575e+00 -1.534193712 -1.532800469 -1.5313884582
## 188 -0.857285021 -8.403631e-01 -0.822931296 -0.805016081 -0.7867256845
## 189 -0.592251108 -5.880278e-01 -0.582865285 -0.576929091 -0.5706215656
## 190 -0.578803089 -5.642589e-01 -0.549691135 -0.534999530 -0.5201100244
## 191  0.165908463  1.778560e-01  0.189865933  0.201977984  0.2118151923
## 192 -0.184989798 -1.802405e-01 -0.175759463 -0.171341719 -0.1668644663
## 193 -0.568031538 -5.555823e-01 -0.541982924 -0.527892716 -0.5136127092
## 194 -2.974672957 -2.969845e+00 -2.965347652 -2.960934289 -2.9564614774
## 195 -1.543028848 -1.530537e+00 -1.517744488 -1.504843721 -1.4951334519
## 196 -0.176997469 -1.488825e-01 -0.130096459 -0.115151678 -0.1000055870
## 197 -0.774553892 -7.644433e-01 -0.754497093 -0.743729643 -0.7320365763
## 198 -1.054139423 -1.050639e+00 -1.047426616 -1.044293065 -1.0411173033
## 199 -0.529622369 -5.266185e-01 -0.523686878 -0.520760772 -0.5177952510
## 200  0.483423657  5.606298e-01  0.630633579  0.705884497  0.7812794434
## 201 -1.166162791 -1.108147e+00 -1.049506023 -0.989492158 -0.9285764706
## 202 -0.179897884 -1.121559e-01 -0.047513103  0.012221612  0.0751231873
## 203 -1.160856543 -1.090147e+00 -1.028246950 -0.971477228 -0.9131266147
## 204 -1.643588571 -1.580566e+00 -1.507876369 -1.435444761 -1.3703636103
## 205  0.938183741  1.016343e+00  1.080259650  1.141853840  1.2068225170
## 206  0.784379642  8.352000e-01  0.885969140  0.935625722  0.9868675334
## 207 -1.069877670 -1.012461e+00 -0.954284836 -0.899365029 -0.8480370829
## 208 -0.956364779 -8.950242e-01 -0.820336512 -0.749423288 -0.6833077398
## 209 -1.588248110 -1.544585e+00 -1.480785812 -1.418362878 -1.3620015359
## 210 -0.632734977 -5.803618e-01 -0.519938324 -0.451900050 -0.3799387580
## 211 -0.463480271 -4.051433e-01 -0.348504965 -0.301409764 -0.2639969731
## 212  0.384596882  4.481576e-01  0.509672179  0.569316691  0.6274446096
## 213 -0.056798933  1.676212e-02  0.070668648  0.116621877  0.1642640605
## 214  0.437440230  5.150476e-01  0.593084804  0.668563544  0.7383697400
## 215  0.218065368  3.032064e-01  0.381905327  0.459494360  0.5388213424
## 216  2.108286388  2.178470e+00  2.247338330  2.327460595  2.4107101569
## 217 -0.680442685 -6.150019e-01 -0.550320219 -0.485772931 -0.4204805981
## 218  0.095124241  1.580067e-01  0.228433388  0.306973564  0.3819291629
## 219  0.086120931  1.559133e-01  0.223934577  0.291153965  0.3557729376
## 220  0.622890526  6.751814e-01  0.727040279  0.779415907  0.8308440846
## 221 -1.444272069 -1.381610e+00 -1.311768024 -1.244227805 -1.1830917128
## 222  2.225243159  2.281311e+00  2.336283899  2.389701027  2.4412311121
## 223 -0.238857198 -1.663966e-01 -0.096939303 -0.029138561  0.0388784311
## 224 -1.112774256 -1.053674e+00 -0.999715816 -0.945769775 -0.8903173078
## 225 -0.599775037 -5.454567e-01 -0.478016292 -0.410175545 -0.3419462849
## 226  0.041307521  1.133404e-01  0.185936629  0.258330980  0.3294955978
## 227  1.038596728  1.111588e+00  1.181169982  1.252391640  1.3190919678
## 228  0.880417359  9.501459e-01  1.020594355  1.088029591  1.1481038402

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## 229 -1.357247344 -1.275211e+00 -1.174856414 -1.084386969 -1.0019241145
## 230 -0.792382697 -7.140081e-01 -0.643937807 -0.576692409 -0.5139189935
## 231 0.919771840 9.903176e-01 1.056730250 1.116680691 1.1746926089
## 232 1.031178478 1.111832e+00 1.185768639 1.249501472 1.3095833526
## 233 -0.339646756 -2.679552e-01 -0.202695624 -0.145567376 -0.0936137731
## 234 -0.901780870 -8.440677e-01 -0.780495706 -0.718269834 -0.6543061613
## 235 2.178358726 2.241393e+00 2.305939366 2.365890112 2.4273494053
## 236 -0.389614562 -3.299459e-01 -0.268383313 -0.205078403 -0.1411714403
## 237 0.001972797 7.146704e-02 0.130625372 0.188019179 0.2453579388
## 238 0.206145687 2.622088e-01 0.315931071 0.373961643 0.4350521935
## 239 -0.766795634 -6.995520e-01 -0.639963413 -0.572503516 -0.4991753684
## 240 -0.898201598 -8.419105e-01 -0.784201121 -0.725601497 -0.6669483940
## 241 0.589723518 6.476327e-01 0.706518757 0.766883249 0.8318923027
## 242 -1.877042449 -1.799577e+00 -1.728577421 -1.662807994 -1.5989846191
## 243 -1.532054132 -1.467307e+00 -1.401262800 -1.336835907 -1.2705168769
## 244 -0.256312313 -1.955687e-01 -0.133180380 -0.069640021 -0.0053410216
## 245 -0.404268798 -3.499125e-01 -0.297474259 -0.241412472 -0.1790525278
## 246 0.537759303 6.179469e-01 0.690416817 0.754199259 0.8157565914
## 247 0.095927192 1.687427e-01 0.229278953 0.294153610 0.3742199677
## 248 -0.280104071 -2.157665e-01 -0.144964077 -0.074565806 -0.0065932266
## 249 -1.631664643 -1.580416e+00 -1.522930114 -1.461628009 -1.3988723005
## 250 -0.067102919 1.007589e-02 0.090420292 0.170709845 0.2477168238
## 251 -0.658252936 -5.814688e-01 -0.505409911 -0.435104790 -0.3636268322
## 252 -0.272514386 -2.142931e-01 -0.154221297 -0.073953555 0.0136116325
## 253 0.098451768 1.663845e-01 0.235263663 0.304298076 0.3813477581
## 254 -0.036988829 1.603819e-02 0.074735001 0.133579156 0.1931192994
## 255 -0.271795685 -2.036435e-01 -0.138852773 -0.072582629 0.0008139122
## 256 0.833800623 8.951827e-01 0.957551051 1.020900992 1.0849266524
## 257 -0.306101784 -2.487413e-01 -0.196815248 -0.143778938 -0.0841886475
## 258 0.194374535 2.795821e-01 0.354606599 0.436350658 0.5197367466
## 259 -1.481327555 -1.419596e+00 -1.361887212 -1.300974825 -1.2396860596
## 260 0.618049452 6.855615e-01 0.750993734 0.813230090 0.8751809490
## 261 -0.555216873 -4.698131e-01 -0.391004929 -0.314028528 -0.2315205711
## 262 -1.713835048 -1.641951e+00 -1.573570041 -1.491999028 -1.4096991981
## 263 0.816977924 8.718095e-01 0.935166876 0.987674888 1.0270832419
## 264 0.051496354 1.246993e-01 0.202033324 0.276692244 0.3519100791
## 265 1.876724249 1.939938e+00 2.002469417 2.064707069 2.1271208855
## 266 0.207213964 2.742270e-01 0.336327028 0.397791658 0.4619203427
## 267 -0.818171404 -7.510339e-01 -0.678860121 -0.604369118 -0.5295576410
## 268 1.898732813 1.970314e+00 2.041944257 2.109986387 2.1711359313
## 269 0.921863064 9.934007e-01 1.055393805 1.116412071 1.1775746176
## 270 1.558504974 1.632238e+00 1.715476557 1.802793502 1.8862162722
## 271 0.776580254 8.475082e-01 0.918339321 0.987104203 1.0525642920
## 272 -1.525846814 -1.457727e+00 -1.391486835 -1.329941938 -1.2732165915
## 273 -0.498547388 -4.271822e-01 -0.357097179 -0.286430826 -0.2142365505
## 274 -0.052021412 3.110703e-02 0.108807024 0.182696868 0.2559148342
## 275 -1.556324088 -1.496728e+00 -1.443742807 -1.392587111 -1.3396008323
## 276 2.240671126 2.315611e+00 2.385712326 2.461804040 2.5389597065
## 277 -1.719944844 -1.654569e+00 -1.598637493 -1.538086484 -1.4754500282
## 278 -0.144308563 -7.052350e-02 -0.001144277 0.063210485 0.1208643948
## 279 -0.026452145 3.754985e-02 0.115310474 0.192671906 0.2614381552
## 280 0.025535734 8.952950e-02 0.156270667 0.224906303 0.2963774042
## 281 -0.509911412 -4.505133e-01 -0.388576236 -0.333295254 -0.2842710883
## 282 -1.946358010 -1.877232e+00 -1.802342619 -1.729151323 -1.6577562464

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## 283 1.693854235 1.760968e+00 1.837106004 1.907022152 1.9678297461
## 284 -0.990053392 -9.399189e-01 -0.875594026 -0.814065191 -0.7612718066
## 285 1.404486193 1.472743e+00 1.546925301 1.612312287 1.6691385267
## 286 -0.666694785 -5.936534e-01 -0.524872477 -0.462110948 -0.4062320287
## 287 0.153977783 2.261490e-01 0.297100996 0.364814925 0.4276155551
## 288 0.125907499 1.804164e-01 0.233900458 0.292195810 0.3511355560
## 289 0.495143527 5.495109e-01 0.600910402 0.661083196 0.7238108094
## 290 1.096694038 1.162488e+00 1.231306929 1.298898164 1.3646934069
## 291 0.252034545 3.379803e-01 0.421663554 0.494305303 0.5565696720
## 292 -1.050791991 -9.842125e-01 -0.915192462 -0.846339042 -0.7793227899
## 293 1.448504145 1.518300e+00 1.579086608 1.640465347 1.6989992096
## 294 0.210735563 2.689675e-01 0.343945745 0.417005806 0.4849753175
## 295 -1.556438726 -1.494752e+00 -1.430199125 -1.371651819 -1.3162114541
## 296 -0.038329191 2.538980e-02 0.093449819 0.158363241 0.2197993516
## 297 -1.754677632 -1.697336e+00 -1.636069209 -1.564281331 -1.4914863048
## 298 2.204579348 2.263045e+00 2.322341566 2.382121729 2.4413158070
## 299 -0.259551777 -1.850715e-01 -0.117285987 -0.043093729 0.0314680847
## 300 -0.088556173 -2.040358e-02 0.036659973 0.093980307 0.1511048042
## 301 -1.492804899 -1.417182e+00 -1.336781974 -1.256440029 -1.1816841748
## 302 -0.429898047 -3.586551e-01 -0.295604326 -0.256311724 -0.2124703016
## 303 -1.041122587 -9.725720e-01 -0.910219035 -0.839185118 -0.7663589889
## 304 -1.322813128 -1.238809e+00 -1.151041279 -1.058499712 -0.9672279900
## 305 0.249204526 3.200879e-01 0.382412490 0.445425218 0.5106401060
## 306 1.116022149 1.193226e+00 1.261303306 1.326607829 1.3919424434
## 307 -0.214804566 -1.522997e-01 -0.087235929 -0.016534893 0.0491298195
## 308 0.395586218 4.766912e-01 0.564901090 0.640101208 0.7040586890
## 309 0.480375468 5.348526e-01 0.591435882 0.650541932 0.7115370230
## 310 -0.296501348 -2.373824e-01 -0.177752546 -0.117944033 -0.0590311774
## 311 1.608679600 1.672677e+00 1.731033046 1.793146051 1.8554621386
## 312 -1.140415362 -1.062867e+00 -0.987666950 -0.914548143 -0.8478117150
## 313 0.889461089 9.467641e-01 0.997213366 1.060071588 1.1230367617
## 314 1.549434346 1.609913e+00 1.663967328 1.717186996 1.7768504939
## 315 0.345574041 4.039872e-01 0.471244267 0.546052811 0.6238120770
## 316 -0.011619698 6.122243e-02 0.128463707 0.186879309 0.2457912147
## 317 -0.878658480 -8.140372e-01 -0.742088087 -0.675217894 -0.6146205345
## 318 0.532160492 6.069220e-01 0.681371276 0.754552538 0.8266875874
## 319 -0.287782779 -2.248660e-01 -0.167646765 -0.110020347 -0.0564746627
## 320 -1.187443496 -1.117168e+00 -1.049716382 -0.989103236 -0.9344153136
## 321 0.105412962 1.668870e-01 0.227433832 0.287800649 0.3471759728
## 322 0.484939137 5.630091e-01 0.638258396 0.718737035 0.8083530848
## 323 0.499743574 5.760125e-01 0.656647646 0.741399489 0.8289441622
## 324 -0.734483918 -6.544336e-01 -0.576732274 -0.506276840 -0.4392118046
## 325 -0.992276394 -9.282724e-01 -0.863591163 -0.793066473 -0.7248529876
## 326 1.200357038 1.285997e+00 1.371998954 1.455014845 1.5334168088
## 327 2.379870697 2.453418e+00 2.526238212 2.593661243 2.6562794920
## 328 -1.574779350 -1.495765e+00 -1.422505608 -1.356298688 -1.2871733867
## 329 -1.313961346 -1.256872e+00 -1.200482852 -1.139001685 -1.0806745956
## 330 -1.031530389 -9.575400e-01 -0.885982191 -0.819445243 -0.7551457751
## 331 -0.410203368 -3.326132e-01 -0.256416798 -0.185905422 -0.1212593312
## 332 -0.760990873 -6.877068e-01 -0.604802858 -0.507980599 -0.4135478897
## 333 0.448841175 5.245193e-01 0.604464574 0.680921355 0.7532598242
## 334 0.512994635 5.776804e-01 0.634797021 0.692161875 0.7479905616
## 335 -1.250205009 -1.170214e+00 -1.100045314 -1.029594072 -0.9611856416
## 336 0.500214989 5.689709e-01 0.636937761 0.704584299 0.7708519732

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## 337 -0.329616889 -2.751874e-01 -0.231028552 -0.190325349 -0.1417980382
## 338 -2.035076033 -1.952335e+00 -1.878647394 -1.807273561 -1.7357106639
## 339 0.654554656 7.307882e-01 0.810824467 0.900147813 0.9809282536
## 340 -0.331240409 -2.692022e-01 -0.205214818 -0.138988956 -0.0726505632
## 341 -0.801107022 -7.450844e-01 -0.691193148 -0.640321446 -0.5926857213
## 342 -1.379836309 -1.313094e+00 -1.261004633 -1.213657854 -1.1635543643
## 343 0.208811086 2.788917e-01 0.349193502 0.418117797 0.4843131658
## 344 -0.583716915 -5.102383e-01 -0.421683906 -0.338599073 -0.2659434176
## 345 0.182452098 2.552135e-01 0.328098861 0.398075057 0.4651125066
## 346 -0.169413483 -1.037187e-01 -0.037209090 0.028522251 0.0925870266
## 347 -1.713553044 -1.652632e+00 -1.601096217 -1.551870592 -1.4947008593
## 348 1.613045279 1.679132e+00 1.748305648 1.811735082 1.8700870457
## 349 -0.748017108 -6.879423e-01 -0.626481113 -0.562902676 -0.5002216675
## 350 -0.049387312 1.300183e-02 0.072851261 0.134242353 0.1992931870
## 351 0.081716219 1.525034e-01 0.218406935 0.285049714 0.3496517238
## 352 -0.435287401 -3.599484e-01 -0.282425250 -0.210144100 -0.1383949487
## 353 -0.431285917 -3.371294e-01 -0.253287832 -0.176768734 -0.1012676583
## 354 -0.826752612 -7.694403e-01 -0.707407360 -0.648527280 -0.5857820081
## 355 0.397058496 4.837519e-01 0.571136089 0.660774977 0.7413687487
## 356 -0.257660268 -1.993862e-01 -0.129015594 -0.063677051 -0.0056356272
## 357 -0.413275532 -3.533941e-01 -0.294379072 -0.233000885 -0.1696541314
## 358 -1.129068034 -1.058890e+00 -0.988088773 -0.917485061 -0.8486315597
## 359 -0.040862094 2.098953e-02 0.089283587 0.162278497 0.2308233720
## 360 -1.752151163 -1.690792e+00 -1.633870860 -1.577310901 -1.5201676363
## 361 -1.293849603 -1.216766e+00 -1.148695133 -1.077172102 -1.0046847221
## 362 -0.956088297 -8.853503e-01 -0.822250537 -0.754347391 -0.6842142619
## 363 -1.205341032 -1.157673e+00 -1.110646695 -1.064254573 -1.0183365866
## 364 1.061650827 1.153911e+00 1.250976881 1.355308774 1.4540822156
## 365 -0.428424548 -3.793335e-01 -0.335047993 -0.291702441 -0.2465913790
## 366 -2.087828440 -2.0243434e+00 -1.958603786 -1.890613624 -1.8206968732
## 367 -1.619862527 -1.562204e+00 -1.505233390 -1.450321354 -1.3976099392
## 368 -0.232505598 -1.710425e-01 -0.113514372 -0.056404301 0.0031608782
## 369 -1.769910248 -1.701215e+00 -1.629205391 -1.566086696 -1.5083796047
## 370 -1.026942862 -9.511320e-01 -0.871813025 -0.790863616 -0.7117857766
## 371 -2.766793019 -2.693968e+00 -2.622598651 -2.552746090 -2.4841208455
## 372 0.159146018 2.216100e-01 0.281747374 0.344264152 0.4022907004
## 373 -1.167532673 -1.059848e+00 -0.970714934 -0.882091898 -0.7871365897
## 374 0.545874918 6.126593e-01 0.674542527 0.740115374 0.8037295334
## 375 0.108462354 2.016145e-01 0.286418214 0.371907377 0.4532362769
## 376 -2.452819034 -2.379885e+00 -2.307253469 -2.239617384 -2.1811610684
## 377 0.417125806 4.763514e-01 0.539237015 0.601662103 0.6626325013
## 378 1.772897080 1.841681e+00 1.909297020 1.970119175 2.0284519583
## 379 0.881921885 9.531588e-01 1.019756576 1.092749509 1.1695624778
## 380 -1.371234785 -1.308718e+00 -1.248563836 -1.184725034 -1.1201940003
## 381 -0.857141494 -7.934319e-01 -0.726181441 -0.654628121 -0.5812037108
## 382 -0.019268196 5.685498e-02 0.135088862 0.221095013 0.3016924390
## 383 0.869086733 9.482379e-01 1.016692955 1.079838108 1.1492651406
## 384 -1.065020181 -9.917592e-01 -0.917470648 -0.853084952 -0.7907030230
## 385 -1.307536239 -1.233749e+00 -1.166074665 -1.101595997 -1.0389582437
## 386 -0.660883373 -5.797105e-01 -0.505461693 -0.433137970 -0.3612030729
## 387 -1.601141059 -1.530710e+00 -1.465585261 -1.405708368 -1.3467474797
## 388 -0.444069962 -3.705371e-01 -0.291719488 -0.219503250 -0.1498196392
## 389 0.472714086 5.408535e-01 0.621243097 0.681803912 0.7335112358
## 390 0.158969219 2.283089e-01 0.295324010 0.359135518 0.4233652419

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## 391 0.352154292 4.276058e-01 0.509360703 0.579389601 0.6378484293
## 392 1.198510952 1.256992e+00 1.317422104 1.378868440 1.4403851339
## 393 -1.556262942 -1.477788e+00 -1.396960922 -1.317782898 -1.2449337408
## 394 -0.913221587 -8.487044e-01 -0.773669229 -0.693507864 -0.6143653624
## 395 -0.611071092 -5.388510e-01 -0.462411943 -0.397183431 -0.3398197315
## 396 1.743926057 1.824643e+00 1.906180924 1.985006208 2.0587577449
## 397 0.390369100 4.429014e-01 0.493307582 0.541575546 0.5881799508
## 398 0.024959562 7.818033e-02 0.128360741 0.180499076 0.2359206038
## 399 -1.742347726 -1.671788e+00 -1.605083106 -1.542388018 -1.4804978677
## 400 -0.502664825 -4.129248e-01 -0.325039827 -0.235802085 -0.1441621134
## 401 1.333105733 1.413321e+00 1.496116959 1.579099682 1.6593960202
## 402 1.297118515 1.378993e+00 1.468690728 1.557498565 1.6413996295
## 403 1.389581949 1.478935e+00 1.563263384 1.645723297 1.7290424102
## 404 0.870046268 9.659337e-01 1.051221952 1.133387232 1.2089472739
## 405 -1.219964871 -1.140651e+00 -1.060763542 -0.980611934 -0.9006979753
## 406 0.340805938 4.275516e-01 0.506179999 0.588373884 0.6809097719
## 407 -1.322041883 -1.235954e+00 -1.149799853 -1.066753306 -0.9898661365
## 408 -1.075999034 -9.980441e-01 -0.915389566 -0.834646690 -0.7534866770
## 409 0.896236446 9.656476e-01 1.044274102 1.124064930 1.2064671026
## 410 -0.968757821 -8.770081e-01 -0.796509803 -0.712758578 -0.6278619693
## 411 1.000070133 1.079766e+00 1.161469703 1.244827980 1.3294438474
## 412 1.000491737 1.103414e+00 1.194164953 1.278345272 1.3659089948
## 413 0.125784813 2.068781e-01 0.286862985 0.363548668 0.4400217570
## 414 -0.752367058 -6.631568e-01 -0.578804984 -0.500777598 -0.4248001049
## 415 0.393421163 4.704768e-01 0.554225270 0.638553698 0.7203700791
## 416 -0.756570783 -6.821704e-01 -0.603673945 -0.519726071 -0.4323510769
## 417 1.049477540 1.132056e+00 1.228091315 1.310381777 1.3782068269
## 418 0.219763380 3.070172e-01 0.393494363 0.478106476 0.5602302479
## 419 -0.389007293 -3.040568e-01 -0.223366473 -0.140424454 -0.0520727583
## 420 -0.156226026 -7.539111e-02 0.018412770 0.106457843 0.1837197293
## 421 -0.705068326 -6.297146e-01 -0.548316118 -0.456600085 -0.3561271696
## 422 -0.051394840 4.490780e-02 0.138654807 0.224706130 0.3055508887
## 423 0.625047338 7.210548e-01 0.806095907 0.894211390 0.9798642736
## 424 -0.029815458 4.976334e-02 0.141642085 0.226976596 0.3028009640
## 425 0.249090837 3.445133e-01 0.429345587 0.510859031 0.5949840900
## 426 0.944044282 1.035012e+00 1.128998251 1.226036865 1.3246133081
## 427 -0.860162967 -7.644539e-01 -0.677179143 -0.587271010 -0.4935891569
## 428 0.878115916 9.566440e-01 1.027174903 1.098529892 1.1714561561
## 429 0.507017676 5.909214e-01 0.684182057 0.785631607 0.8895532582
## 430 0.025918326 1.060083e-01 0.177103724 0.256538572 0.3457459523
## 431 -1.311500652 -1.236089e+00 -1.166346887 -1.087390239 -1.0046088394
## 432 -1.197081467 -1.113561e+00 -1.026187866 -0.940126300 -0.8517202280
## 433 0.294207230 3.682100e-01 0.447353880 0.528776547 0.6101837718
## 434 -0.285918632 -1.893770e-01 -0.105318889 -0.024449309 0.0544857080
## 435 -0.475660294 -3.884050e-01 -0.312345293 -0.232552033 -0.1478634041
## 436 -0.601665448 -5.103504e-01 -0.423928780 -0.335570496 -0.2419108720
## 437 1.341298916 1.431794e+00 1.519274721 1.603055494 1.6838447566
## 438 0.098512059 1.906146e-01 0.277284171 0.357872836 0.4346112637
## 439 0.690946818 7.665853e-01 0.838843754 0.917741852 1.0091955346
## 440 -0.949176454 -8.584015e-01 -0.764694409 -0.670943814 -0.5806673510
## 441 -0.952311061 -8.733700e-01 -0.798763708 -0.731145742 -0.6600419561
## 442 -0.962466860 -8.799764e-01 -0.794958106 -0.710277466 -0.6246705863
## 443 0.256096880 3.363264e-01 0.427239645 0.512608060 0.5940139998
## 444 1.623408175 1.717324e+00 1.811579374 1.901958120 1.9915019214

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## 445 0.432688819 5.312601e-01 0.621338207 0.708517481 0.7947894143
## 446 1.605903887 1.714595e+00 1.813186485 1.895345805 1.9700941224
## 447 -1.118458109 -1.031131e+00 -0.942044079 -0.852695010 -0.7660408459
## 448 -0.822128602 -7.263945e-01 -0.635187830 -0.552990596 -0.4708038788
## 449 0.622803654 6.872275e-01 0.757556858 0.822959746 0.8921896265
## 450 0.127193134 2.265889e-01 0.311936242 0.397606781 0.4940323259
## 451 -0.413003305 -3.318797e-01 -0.253270685 -0.177997058 -0.0962885062
## 452 -1.359486787 -1.267751e+00 -1.170850228 -1.073083970 -0.9789160271
## 453 0.909064661 9.861930e-01 1.060362811 1.132153169 1.2098492595
## 454 -1.641503405 -1.565648e+00 -1.493288743 -1.420174883 -1.3452328468
## 455 -0.322493533 -2.308813e-01 -0.148577249 -0.070576474 0.0096835841
## 456 1.884016009 1.971776e+00 2.063404081 2.154023358 2.2389635080
## 457 0.024547614 1.251159e-01 0.218158685 0.303879078 0.3870667280
## 458 -1.192739786 -1.110868e+00 -1.028637743 -0.941645136 -0.8567033440
## 459 -0.361008914 -2.741006e-01 -0.184349879 -0.096261963 -0.0128473885
## 460 0.715047937 7.980334e-01 0.882767841 0.969308511 1.0570025065
## 461 -0.204465453 -1.136921e-01 -0.032378333 0.045846820 0.1224981877
## 462 -0.441848445 -3.583023e-01 -0.275252999 -0.190335930 -0.0934960450
## 463 0.457860655 5.525608e-01 0.653712954 0.754879021 0.8499117942
## 464 0.244155263 3.194175e-01 0.401679050 0.491062939 0.5808677591
## 465 2.411877570 2.506574e+00 2.598957852 2.688719513 2.7766979101
## 466 0.547087160 6.223822e-01 0.691795722 0.763332029 0.8327072478
## 467 -2.091784337 -1.994103e+00 -1.897036377 -1.806489629 -1.7271459815
## 468 -0.496396412 -4.195449e-01 -0.341375649 -0.262772123 -0.1837919387
## 469 -0.010924055 7.848925e-02 0.174995188 0.275063573 0.3743181223
## 470 -1.811189742 -1.732947e+00 -1.664356285 -1.594047964 -1.5192066381
## 471 -1.815518034 -1.700202e+00 -1.594568471 -1.492409351 -1.3953583950
## 472 -2.485964013 -2.397143e+00 -2.309698989 -2.220269680 -2.1283767139
## 473 2.405351462 2.493360e+00 2.577101697 2.661456217 2.7507425433
## 474 -0.897147454 -8.209048e-01 -0.733570554 -0.638412622 -0.5427209966
## 475 -0.538799068 -4.676814e-01 -0.389963600 -0.326108353 -0.2595453819
## 476 0.262042959 3.444829e-01 0.433277402 0.526279215 0.6180647481
## 477 -0.048735701 4.035536e-02 0.128436766 0.219013708 0.3044657500
## 478 0.174868425 2.469103e-01 0.323171875 0.402911470 0.4848491260
## 479 -0.971235944 -8.867107e-01 -0.806959024 -0.724179798 -0.6400105715
## 480 -1.376236141 -1.281331e+00 -1.197796492 -1.116909028 -1.0404959072
## 481 1.859436836 1.945000e+00 2.030279543 2.112377759 2.1882206494
## 482 -0.440695932 -3.581737e-01 -0.266224054 -0.185665710 -0.1160135404
## 483 -0.183488198 -9.133844e-02 -0.003008003 0.087679055 0.1773021354
## 484 0.909737460 9.902002e-01 1.068990015 1.153299179 1.2396822431
## 485 1.584994352 1.669679e+00 1.763317445 1.854410056 1.9406660283
## 486 0.637918989 7.317559e-01 0.824839632 0.912856370 0.9983212101
## 487 1.956648304 2.047290e+00 2.139328069 2.233513233 2.3296456648
## 488 0.293153893 3.856299e-01 0.467207086 0.548809008 0.6355357399
## 489 0.019975488 1.254967e-01 0.231232060 0.330390760 0.4171844531
## 490 1.898648640 1.975995e+00 2.055864071 2.138697132 2.2220692481
## 491 0.066441642 1.492015e-01 0.239484464 0.324130693 0.4040372741
## 492 0.019720219 9.746439e-02 0.181025407 0.267479707 0.3517625851
## 493 -1.073243496 -9.842379e-01 -0.879240234 -0.768023118 -0.6621670713
## 494 1.483247429 1.585526e+00 1.682244477 1.782786531 1.8796791044
## 495 0.033400918 6.118418e-02 0.124456897 0.221273569 0.3173940092
## 496 -0.581234638 -4.952934e-01 -0.407939891 -0.319089054 -0.2364378527
## 497 -0.060577991 3.573349e-02 0.140640485 0.246685760 0.3458723705
## 498 -1.285456978 -1.197093e+00 -1.110710541 -1.027085069 -0.9465764697

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## 499 -0.353787003 -2.499958e-01 -0.150853441 -0.062193704 0.0249358993
## 500 0.142040996 2.345795e-01 0.324717315 0.414034688 0.5023015684
## 501 -0.494079735 -4.239980e-01 -0.346615744 -0.274568812 -0.2033449464
## 502 0.443242984 5.331170e-01 0.624216453 0.716927440 0.8127448034
## 503 0.225463337 3.153516e-01 0.399885396 0.479010062 0.5670775092
## 504 -0.264839303 -1.901257e-01 -0.111770455 -0.029995541 0.0512400064
## 505 0.186317922 2.831554e-01 0.376246487 0.472536753 0.5664726831
## 506 0.703505513 8.106420e-01 0.922134607 1.032101197 1.1357161620
## 507 0.289697940 3.821048e-01 0.480829383 0.580000447 0.6729664353
## 508 -0.143457057 -7.535557e-02 0.012926372 0.098749019 0.1790431247
## 509 -0.174761351 -8.846203e-02 0.001570999 0.095349876 0.1914984959
## 510 0.203508354 2.924825e-01 0.384652237 0.476544320 0.5717815200
## 511 -0.887012257 -8.025056e-01 -0.716850692 -0.634743107 -0.5582254168
## 512 0.387201913 4.820907e-01 0.577085592 0.677617020 0.7739109963
## 513 -0.375873591 -3.099652e-01 -0.246805095 -0.179408246 -0.0992897349
## 514 -0.388606622 -2.947807e-01 -0.205161512 -0.118067355 -0.0273035400
## 515 -1.119090616 -1.029837e+00 -0.938633136 -0.844402075 -0.7480333069
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## 518 0.189666010 2.941228e-01 0.401100593 0.506927587 0.6081087800
## 519 -0.984946200 -9.134607e-01 -0.827507977 -0.740265081 -0.6630611658
## 520 0.610189381 6.903356e-01 0.767215700 0.842483216 0.9175313900
## 521 -1.566684818 -1.483677e+00 -1.391049065 -1.293495256 -1.1971109524
## 522 -0.010940114 8.511480e-02 0.185813244 0.287736807 0.3794853754
## 523 1.367825799 1.457225e+00 1.548947526 1.640649960 1.7302434594
## 524 0.563955833 6.544913e-01 0.734337625 0.815634812 0.8898302004
## 525 -0.554616176 -4.518603e-01 -0.364826006 -0.284441346 -0.2082623318
## 526 -0.920152468 -8.327152e-01 -0.740285697 -0.644731432 -0.5552320328
## 527 -0.267022873 -1.825182e-01 -0.109309189 -0.040150212 0.0320961291
## 528 -0.407503587 -3.294237e-01 -0.253517546 -0.177430784 -0.0994592900
## 529 1.438088072 1.516712e+00 1.594377554 1.670401271 1.7464800039
## 530 0.583195077 6.688612e-01 0.750935374 0.833258674 0.9109768275
## 531 -0.692916387 -6.193630e-01 -0.536340820 -0.448822695 -0.3617527403
## 532 -0.294155858 -2.099885e-01 -0.119315249 -0.025307081 0.0680515295
## 533 -1.098912883 -1.024847e+00 -0.948641945 -0.864668187 -0.7749073406
## 534 2.095699259 2.176521e+00 2.253131132 2.330556912 2.4030652875
## 535 -0.251578529 -1.561956e-01 -0.071376754 0.012648164 0.0895594277
## 536 -0.581365513 -4.895499e-01 -0.401629341 -0.320585956 -0.2417849247
## 537 0.212793778 2.984871e-01 0.373601144 0.448433001 0.5302415870
## 538 -0.241119563 -1.421912e-01 -0.053245128 0.031013714 0.1100848068
## 539 1.450396010 1.524219e+00 1.600814628 1.680235029 1.7622299724
## 540 -0.105465599 -3.044091e-02 0.044843288 0.124125295 0.2088639832
## 541 0.177631213 2.535956e-01 0.330731089 0.403063514 0.4764194772
## 542 -2.082011160 -1.986237e+00 -1.886256023 -1.788580506 -1.6994522048
## 543 -0.415288974 -3.394503e-01 -0.251318993 -0.160763171 -0.0675746587
## 544 -0.528290035 -4.264860e-01 -0.332330109 -0.249935894 -0.1667433689
## 545 1.117745801 1.206662e+00 1.299066654 1.393589395 1.4893017072
## 546 -0.160745107 -7.506069e-02 0.001989022 0.081491723 0.1623000041
## 547 0.283914195 3.717385e-01 0.458564238 0.543891653 0.6273029642
## 548 1.064369197 1.146921e+00 1.244264733 1.342158748 1.4345394322
## 549 0.023230282 1.132022e-01 0.206675174 0.297505546 0.3850192305
## 550 0.235467774 3.192624e-01 0.407649194 0.489407824 0.5633639365
## 551 0.508076417 6.052557e-01 0.686595750 0.761129505 0.8393380474
## 552 1.498720907 1.593063e+00 1.677461615 1.767498930 1.8668088887

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## 553 -1.285878177 -1.198247e+00 -1.102404912 -1.001707562 -0.9034583727
## 554 -0.746138315 -6.507983e-01 -0.555091410 -0.465665713 -0.3816770780
## 555 0.858485679 9.288795e-01 1.001772846 1.076857012 1.1527104668
## 556 1.349195874 1.442516e+00 1.539075309 1.636039780 1.7345315797
## 557 0.051322505 1.358895e-01 0.223762676 0.305784437 0.3880885465
## 558 0.085858176 1.771388e-01 0.266553782 0.354076115 0.4385435269
## 559 0.187620111 2.547740e-01 0.331814686 0.410936039 0.4922907068
## 560 -2.348109052 -2.254565e+00 -2.165881126 -2.078705934 -1.9902547835
## 561 -0.672517817 -5.868899e-01 -0.490398863 -0.387865807 -0.2885202661
## 562 -0.756318799 -6.785285e-01 -0.593604951 -0.509347248 -0.4224601216
## 563 0.869630243 9.584394e-01 1.050944664 1.136118166 1.2218124585
## 564 0.758099437 8.462757e-01 0.929134505 1.005296383 1.0770525124
## 565 0.158127254 2.377505e-01 0.321677056 0.405834844 0.4871563482
## 566 -0.080035660 5.655576e-05 0.090489885 0.188964019 0.2908323503
## 567 0.127853820 2.048069e-01 0.286409716 0.374382124 0.4664183050
## 568 1.780252075 1.863519e+00 1.948350559 2.034586649 2.1213860048
## 569 0.614682963 7.186655e-01 0.806495364 0.897464114 0.9919461555
## 570 0.841410534 9.336375e-01 1.030028995 1.119792274 1.2046733972
## 571 -1.150828152 -1.078126e+00 -0.999123813 -0.920532122 -0.8423521351
## 572 1.236001265 1.338779e+00 1.447638585 1.557472565 1.6620537839
## 573 1.325409283 1.417921e+00 1.501367605 1.588916455 1.6840558182
## 574 -1.535965482 -1.454869e+00 -1.373902474 -1.288814612 -1.2088274501
## 575 1.070801998 1.164278e+00 1.248065716 1.320766822 1.3963331943
## 576 1.146894682 1.224510e+00 1.303342714 1.395696855 1.4937374077
## 577 -0.642076193 -5.641887e-01 -0.480630209 -0.394937701 -0.3085461272
## 578 -1.848880090 -1.757532e+00 -1.672350471 -1.595939632 -1.5246836431
## 579 1.287064708 1.394401e+00 1.490908186 1.582990479 1.6716090547
## 580 -0.068338221 1.340859e-02 0.099690549 0.192206295 0.2881193350
## 581 0.027633012 1.221686e-01 0.211520311 0.295125374 0.3723515674
## 582 0.351827098 4.340385e-01 0.511621542 0.587737674 0.6628894395
## 583 0.221440539 3.085953e-01 0.397276579 0.484881732 0.5695979940
## 584 -0.363186798 -2.592927e-01 -0.163217023 -0.079916611 0.0016632845
## 585 0.223198259 3.004570e-01 0.387382355 0.480396333 0.5714584870
## 586 1.156431996 1.242749e+00 1.316783133 1.387958773 1.4633407554
## 587 0.166255662 2.671959e-01 0.368696890 0.464886700 0.5510735998
## 588 1.544043084 1.621730e+00 1.710893054 1.810653105 1.9139643722
## 589 0.836672696 9.118119e-01 0.998353405 1.084299872 1.1672302692
## 590 0.7787779681 8.559712e-01 0.936034358 1.018129618 1.1011317764
## 591 0.669314333 7.502082e-01 0.831466306 0.914258859 0.9981062811
## 592 0.571285063 6.590656e-01 0.740942551 0.822671962 0.9069752142
## 593 -0.719915886 -6.307051e-01 -0.538671484 -0.448413308 -0.3639746760
## 594 -2.190436219 -2.099773e+00 -2.017380376 -1.941031260 -1.8658176701
## 595 -1.409977086 -1.327882e+00 -1.251651805 -1.176060893 -1.1034042513
## 596 -1.547482718 -1.457564e+00 -1.362426899 -1.265507984 -1.1699549419
## 597 1.644372698 1.742935e+00 1.842850389 1.936122214 2.0203738893
## 598 -0.782303806 -6.868219e-01 -0.598237401 -0.520375399 -0.4491888134
## 599 -0.363178150 -2.696205e-01 -0.174113164 -0.084889754 0.0010453306
## 600 -1.288882578 -1.186958e+00 -1.088855706 -0.988490945 -0.8914498370
## 601 -0.069350885 1.731418e-02 0.108702121 0.196626108 0.2819661664
## 602 -0.535332188 -4.557340e-01 -0.383896156 -0.308666378 -0.2300441268
## 603 0.697829839 7.900773e-01 0.878002423 0.962021046 1.0478994165
## 604 -0.351597250 -2.690746e-01 -0.181126148 -0.096538065 -0.0187871496
## 605 1.983326428 2.063390e+00 2.149559554 2.235900977 2.3232037633
## 606 0.047476064 1.322652e-01 0.221070745 0.308425436 0.3979265210

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```

## 607 0.632383927 7.171892e-01 0.798131271 0.874407675 0.9456702183
## 608 -2.218530566 -2.146704e+00 -2.072685851 -1.991213431 -1.9095894245
## 609 -0.183754103 -1.137195e-01 -0.035476356 0.043584037 0.1240254368
## 610 0.903863675 9.838186e-01 1.074039477 1.163348300 1.2450488570
## 611 0.298220627 3.770690e-01 0.458187582 0.538878234 0.6286989286
## 612 0.189922058 2.779389e-01 0.365978946 0.451035752 0.5308523692
## 613 0.604627446 6.846780e-01 0.756926776 0.829111260 0.9055658843
## 614 0.585852198 6.599136e-01 0.742292425 0.823837035 0.9055472915
## 615 1.014193214 1.125835e+00 1.232121244 1.324597197 1.4126846588
## 616 0.224165800 2.956033e-01 0.373116399 0.456245035 0.5409181078
## 617 0.475380411 5.573153e-01 0.642477514 0.737091183 0.8291177257
## 618 1.652497097 1.739296e+00 1.818862862 1.900126684 1.9899749080
## 619 0.455322731 5.512115e-01 0.647846000 0.742434573 0.8326869289
## 620 0.540487946 6.123253e-01 0.682905330 0.754270197 0.8256877105
## 621 0.422710268 5.019611e-01 0.592533917 0.684089889 0.7739311339
## 622 1.419158286 1.506082e+00 1.593884079 1.677894283 1.7565997801
## 623 1.223224745 1.296324e+00 1.368291378 1.442201205 1.5158377334
## 624 0.907355720 9.857700e-01 1.066462128 1.144376923 1.2199297347
## 625 0.951304986 1.032325e+00 1.120334153 1.209675201 1.2952660008
## 626 -0.408036054 -3.200365e-01 -0.237843463 -0.148096671 -0.0587325712
## 627 -0.471706219 -3.964375e-01 -0.312921493 -0.228946054 -0.1476522586
## 628 1.028156201 1.110748e+00 1.197288471 1.289242532 1.3841337439
## 629 -0.495822454 -4.010825e-01 -0.320499925 -0.236837337 -0.1485443196
## 630 2.243891611 2.346368e+00 2.444137507 2.536839204 2.6233536470
## 631 -1.585101071 -1.511309e+00 -1.419663486 -1.339049708 -1.2647333283
## 632 -0.108599490 -2.301939e-02 0.065244162 0.152781023 0.2357224495
## 633 -0.509339525 -4.154528e-01 -0.327961202 -0.249247491 -0.1770480205
## 634 -1.832068366 -1.748248e+00 -1.659468590 -1.578447745 -1.4999572670
## 635 2.710125157 2.803287e+00 2.891689248 2.985412232 3.0738348713
## 636 0.704441591 7.934951e-01 0.904827414 1.009077306 1.1007769273
## 637 -1.621666952 -1.540398e+00 -1.459612931 -1.380228345 -1.3029181741
## 638 -0.508445752 -4.321294e-01 -0.351639134 -0.269201901 -0.1920180504
## 639 -0.163275199 -8.198078e-02 -0.006118502 0.067965552 0.1428119746
## 640 -1.214473906 -1.128359e+00 -1.047157104 -0.967482666 -0.8858132589
## 641 -0.237535924 -1.320218e-01 -0.045481357 0.038658747 0.1286128896
## 642 0.483494224 5.715543e-01 0.668116463 0.762709686 0.8580833656
## 643 1.169311321 1.245560e+00 1.324221277 1.406423939 1.4913467101
## 644 -0.756633370 -6.672023e-01 -0.579546516 -0.486078147 -0.3940751358
## 645 0.032240760 1.212506e-01 0.203993756 0.287222041 0.3758081970
## 646 0.048114529 1.343170e-01 0.230819135 0.320910273 0.3973351804
## 647 0.098234702 1.690112e-01 0.240715605 0.313507011 0.3873963570
## 648 -0.411412277 -3.141160e-01 -0.221526043 -0.129851784 -0.0377044396
## 649 1.066076095 1.174605e+00 1.273420079 1.358737191 1.4332555781
## 650 -0.109522332 -1.545441e-02 0.073184114 0.160642663 0.2475017531
## 651 1.195237677 1.281860e+00 1.363192957 1.444706916 1.5260894735
## 652 0.824186406 8.980275e-01 0.970038921 1.039503932 1.1125144257
## 653 -0.104045323 -2.214469e-02 0.058248143 0.141962027 0.2246775467
## 654 -1.475603303 -1.386442e+00 -1.297339820 -1.205246766 -1.1111060046
## 655 0.015726386 1.053784e-01 0.187170184 0.270907717 0.3552167575
## 656 -0.059266673 2.795214e-02 0.114816987 0.199553580 0.2799570775
## 657 0.684158539 7.691631e-01 0.851813974 0.931338088 1.0069006387
## 658 -0.332352132 -2.430274e-01 -0.150515272 -0.063063327 0.0180157659
## 659 0.409979965 4.925391e-01 0.578463131 0.658335437 0.7320148837
## 660 0.564175434 6.522843e-01 0.732911388 0.813275803 0.8955953009

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## 661 1.348156291 1.427140e+00 1.512775465 1.607408238 1.6988231267
## 662 -0.787491699 -7.005487e-01 -0.612661558 -0.525192179 -0.4395712042
## 663 0.716206242 7.953182e-01 0.885258217 0.969630810 1.0492180581
## 664 0.709519647 7.935584e-01 0.883185006 0.981014784 1.0755132151
## 665 -0.087862043 -1.911968e-02 0.047134259 0.126424275 0.2122158480
## 666 -1.445863693 -1.363505e+00 -1.272185357 -1.188494795 -1.1098314753
## 667 0.345663286 4.165862e-01 0.486281302 0.554199105 0.6198786511
## 668 -0.285749922 -1.968550e-01 -0.114316438 -0.038118352 0.0367641039
## 669 -0.737978636 -6.459403e-01 -0.557478041 -0.469716625 -0.3838744865
## 670 -0.056898737 2.935142e-02 0.099808860 0.164388315 0.2304433856
## 671 1.189888951 1.262388e+00 1.337245780 1.413583056 1.4906833428
## 672 1.140449377 1.220759e+00 1.301737894 1.382710998 1.4628878891
## 673 0.316303875 3.937871e-01 0.475991135 0.563016935 0.6533087645
## 674 -0.586430231 -5.007146e-01 -0.427707858 -0.357214551 -0.2830306779
## 675 -0.335063706 -2.596898e-01 -0.183115667 -0.104757237 -0.0236253237
## 676 -1.294945866 -1.211452e+00 -1.133784980 -1.054631127 -0.9699473606
## 677 -0.535238695 -4.527284e-01 -0.371969647 -0.293960353 -0.2137691600
## 678 0.498024172 5.899916e-01 0.676645131 0.773976319 0.8745269606
## 679 -1.507159423 -1.417898e+00 -1.336618242 -1.255125771 -1.1705112867
## 680 -1.238963412 -1.149550e+00 -1.068741213 -0.991259990 -0.9108108482
## 681 0.508414961 5.941882e-01 0.680452151 0.769684859 0.8566739402
## 682 0.194023094 2.823723e-01 0.363773586 0.447264197 0.5302335799
## 683 -0.864009357 -7.926844e-01 -0.718984838 -0.643211890 -0.5654487404
## 684 -0.068090586 9.819033e-03 0.084686373 0.156856727 0.2283590910
## 685 0.288269396 3.616001e-01 0.428718819 0.491035510 0.5504400206
## 686 0.673650181 7.590470e-01 0.841987318 0.919685884 0.9920704671
## 687 -0.585425224 -5.026872e-01 -0.413417534 -0.329503087 -0.2468925506
## 688 0.659884792 7.429434e-01 0.834542409 0.923993989 1.0048852576
## 689 -0.076721860 2.247877e-02 0.111736119 0.192158676 0.2698759241
## 690 -1.004722746 -9.297412e-01 -0.850844856 -0.772868138 -0.6974613789
## 691 -0.488740756 -4.006658e-01 -0.310703439 -0.222534444 -0.1393405279
## 692 1.170360248 1.251461e+00 1.321401004 1.386635999 1.4586740942
## 693 -0.297323114 -2.100156e-01 -0.119619126 -0.029464444 0.0562898598
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## 696 -0.553669548 -4.737522e-01 -0.388441726 -0.298644282 -0.2080335992
## 697 -0.211997813 -1.181048e-01 -0.028124226 0.057616527 0.1390786246
## 698 0.191496197 2.774256e-01 0.366639721 0.467598470 0.5666090668
## 699 0.219520326 3.021197e-01 0.391427180 0.479072250 0.5606232312
## 700 -0.322095569 -2.366397e-01 -0.153241635 -0.072294137 0.0061777844
## 701 0.866644018 9.395716e-01 1.023856089 1.114599660 1.2089823999
## 702 1.354178042 1.458605e+00 1.556108571 1.643635549 1.7321580058
## 703 -1.807364020 -1.724461e+00 -1.630519595 -1.533946204 -1.4374828274
## 704 1.531396430 1.624091e+00 1.713406931 1.807584661 1.8976771793
## 705 1.327777447 1.411028e+00 1.500481677 1.592966016 1.6834392027
## 706 -0.765797028 -6.797548e-01 -0.597919105 -0.520585203 -0.4467976047
## 707 1.215999138 1.298355e+00 1.385250107 1.471858752 1.5512462455
## 708 3.118684940 3.214323e+00 3.302083754 3.388732775 3.4744358084
## 709 -1.064523126 -9.920977e-01 -0.915018216 -0.829572233 -0.7410849674
## 710 -1.508401325 -1.433956e+00 -1.334205940 -1.240615500 -1.1516910361
## 711 -0.321704221 -2.362172e-01 -0.153843773 -0.078081455 -0.0015109089
## 712 -0.414672190 -3.263883e-01 -0.237227943 -0.148502103 -0.0583465803
## 713 0.229170766 3.300194e-01 0.424526641 0.509317831 0.5835653054
## 714 0.711431702 7.825796e-01 0.863230073 0.946733666 1.0329806551

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## 715 0.342126539 4.304708e-01 0.519843279 0.607407089 0.6908331618
## 716 1.077027244 1.157144e+00 1.243418163 1.329420900 1.4137440316
## 717 -0.664351369 -5.870340e-01 -0.520967085 -0.447485414 -0.3672058927
## 718 -1.226783117 -1.147846e+00 -1.060224789 -0.963910755 -0.8759871293
## 719 -0.538031808 -4.568876e-01 -0.369897056 -0.285913814 -0.2098881412
## 720 0.123386814 2.163769e-01 0.303227925 0.385862809 0.4698809435
## 721 -1.612268784 -1.532938e+00 -1.457401780 -1.380909083 -1.2988882580
## 722 -1.154466633 -1.075236e+00 -0.993396268 -0.909667763 -0.8241503009
## 723 -0.940863587 -8.514458e-01 -0.761166338 -0.672608053 -0.5870628551
## 724 -0.697377189 -6.060277e-01 -0.521580247 -0.444887345 -0.3725711589
## 725 -0.113789581 -2.924373e-02 0.051180979 0.130233163 0.2093554752
## 726 0.779568987 8.710759e-01 0.958773550 1.045291063 1.1316993440
## 727 0.191343647 2.730548e-01 0.353092276 0.438930916 0.5277526307
## 728 -1.684115045 -1.608893e+00 -1.528268449 -1.440450710 -1.3526177443
## 729 -0.126414343 -5.338109e-02 0.023247222 0.098533769 0.1701384828
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## 731 -0.677194609 -5.907805e-01 -0.506251588 -0.417722574 -0.3321597208
## 732 -0.500576074 -3.932244e-01 -0.289086672 -0.191432012 -0.1016979781
## 733 1.492858739 1.588775e+00 1.674797185 1.757509842 1.8415424810
## 734 1.513028916 1.589918e+00 1.670721909 1.757153001 1.8352709217
## 735 0.412680275 4.863597e-01 0.551657191 0.621148129 0.7041094131
## 736 0.366930587 4.498994e-01 0.534967749 0.624322593 0.7183311988
## 737 0.959924050 1.044545e+00 1.130301365 1.216433402 1.3063723409
## 738 -0.585191448 -4.924950e-01 -0.406593340 -0.325120763 -0.2419210077
## 739 0.027767301 1.193312e-01 0.212627061 0.306142335 0.3963143458
## 740 -0.458079000 -3.594942e-01 -0.259647106 -0.160640792 -0.0642692558
## 741 0.171250192 2.415077e-01 0.327841705 0.414782466 0.5016524074
## 742 0.230585908 3.193919e-01 0.417030087 0.523968198 0.6264990583
## 743 1.365536497 1.452030e+00 1.529839633 1.601641526 1.6736884786
## 744 1.746681106 1.832897e+00 1.915989799 1.993781999 2.0652447117
## 745 1.437286191 1.524051e+00 1.626792286 1.725442889 1.8147406986
## 746 -0.209876867 -1.308570e-01 -0.058834086 0.007855749 0.0747326414
## 747 0.346241296 4.321583e-01 0.521897891 0.618366724 0.7217014138
## 748 1.808642326 1.906103e+00 2.005434030 2.101222765 2.1887376570
## 749 -0.104492754 -1.509785e-02 0.081670817 0.181828109 0.2810182136
## 750 0.120620623 2.214132e-01 0.316536476 0.404898623 0.4864802671
## 751 -0.858193930 -7.699157e-01 -0.678937965 -0.585039177 -0.4906998544
## 752 -0.175753130 -8.678915e-02 0.010076792 0.102851726 0.1853236816
## 753 0.548886735 6.324433e-01 0.721156396 0.808445638 0.8902966531
## 754 -0.926679875 -8.376252e-01 -0.756650201 -0.667886537 -0.5801859724
## 755 0.085231413 1.637090e-01 0.246126351 0.332613188 0.4216857772
## 756 1.375123019 1.468229e+00 1.552575686 1.630054780 1.7045484538
## 757 1.191583279 1.265032e+00 1.335272686 1.406877509 1.4838189626
## 758 -0.429713610 -3.429520e-01 -0.250348168 -0.155059837 -0.0613359829
## 759 -0.656160618 -5.754390e-01 -0.497595559 -0.424013131 -0.3437871711
## 760 -0.089942955 4.592129e-04 0.090418214 0.177239327 0.2600390930
## 761 -1.172728972 -1.075237e+00 -0.979279513 -0.886575784 -0.7930367855
## 762 0.170523074 2.535281e-01 0.329367039 0.406203700 0.4878567380
## 763 0.425551043 5.077981e-01 0.590514904 0.674808719 0.7620913837
## 764 -1.237428493 -1.153992e+00 -1.068326632 -0.978711433 -0.8887995463
## 765 1.004893267 1.098732e+00 1.185719782 1.278303493 1.3700137778
## 766 1.399798308 1.483696e+00 1.566879719 1.647822330 1.7249368304
## 767 -0.013149832 7.919936e-02 0.168955952 0.256954903 0.3431665935
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## 769 0.069652062 1.490052e-01 0.230348161 0.317083671 0.3998853569
## 770 0.692152885 7.733787e-01 0.850013879 0.936330420 1.0233742883
## 771 1.465125936 1.555401e+00 1.642129049 1.735888957 1.8311124348
## 772 0.260884179 3.531054e-01 0.441577349 0.523557804 0.6013281261
## 773 1.860237731 1.953925e+00 2.051974596 2.152724878 2.2536824435
## 774 1.623552096 1.706625e+00 1.790907535 1.880826839 1.9758724713
##          100      101      102      103      104
## 0   -0.817175593 -0.804653496 -0.791104519 -0.776503895 -0.759512924
## 1   -1.320744631 -1.312039060 -1.306011447 -1.299813616 -1.293391011
## 2   -1.979355060 -1.979093315 -1.978825915 -1.978550964 -1.978266041
## 3   -2.066723708 -2.049768396 -2.032446791 -2.014636030 -1.996493899
## 4   1.495231316  1.500436854  1.505667594  1.510282053  1.513668582
## 5   -0.457516366 -0.454539164 -0.451497644 -0.448370233 -0.445187842
## 6   0.011387039  0.011979369  0.012584496  0.013206711  0.013851492
## 7   -0.535655757 -0.532458081 -0.529191324 -0.525832315 -0.522351486
## 8   -1.443782990 -1.441849951 -1.439875151 -1.437920429 -1.436774289
## 9   -0.540900832 -0.534201231 -0.526496189 -0.517096917 -0.507356763
## 10  -0.917692097 -0.903721803 -0.888513961 -0.870719445 -0.853115896
## 11  0.513076029  0.515878009  0.518740521  0.521683870  0.524670293
## 12  -2.482126438 -2.475420620 -2.471087356 -2.466631721 -2.462014496
## 13  -1.552900949 -1.552426776 -1.552577971 -1.552733435 -1.552894538
## 14  -1.930456991 -1.925845917 -1.921135228 -1.916291510 -1.911445401
## 15  -1.104737401 -1.099941886 -1.096861390 -1.093693903 -1.090411541
## 16  -2.505012345 -2.501746662 -2.498410428 -2.494979981 -2.491492879
## 17  -1.647730270 -1.647143028 -1.646543099 -1.645926229 -1.645344121
## 18  -1.179826918 -1.178027569 -1.176616203 -1.175897301 -1.175152326
## 19  -0.548512192 -0.546043817 -0.543522117 -0.541003221 -0.539287935
## 20  -0.445797085 -0.444583112 -0.444048234 -0.443498251 -0.442928323
## 21  -0.095252976 -0.095122979 -0.094990174 -0.094947351 -0.096036347
## 22  0.552328509  0.557939567  0.563810552  0.570098196  0.578473131
## 23  -0.822976672 -0.820171377 -0.817305478 -0.814358647 -0.811381634
## 24  -0.330118697 -0.324552802 -0.318866664 -0.313195300 -0.309351522
## 25  -2.207053633 -2.200120155 -2.192629795 -2.184927911 -2.176946705
## 26  -0.404284426 -0.394799515 -0.385109698 -0.375365046 -0.367804153
## 27  -0.571237847 -0.565008741 -0.558645066 -0.552228815 -0.547180144
## 28  0.197425897  0.225573875  0.257427046  0.290179738  0.323096635
## 29  -1.925224978 -1.924389535 -1.923562090 -1.922912395 -1.922343261
## 30  0.686011735  0.711118309  0.735856196  0.754571895  0.773966350
## 31  -0.271685586 -0.248635526 -0.225087505 -0.201831885 -0.188834442
## 32  -2.169615256 -2.169888061 -2.169756370 -2.168409927 -2.166110038
## 33  0.327238813  0.341577918  0.356226797  0.371289355  0.386928492
## 34  -1.762905781 -1.762876370 -1.762911923 -1.763455006 -1.764280027
## 35  0.077202545  0.088964365  0.101060057  0.113497327  0.126385656
## 36  -2.108935499 -2.104807640 -2.100702110 -2.097456948 -2.095877116
## 37  -0.572337733 -0.568802698 -0.565191295 -0.561477907 -0.557825484
## 38  -1.050664085 -1.037087963 -1.023218551 -1.008957471 -0.994233189
## 39  -1.268427682 -1.263344849 -1.258152209 -1.252812931 -1.247280015
## 40  1.291658349  1.302074907  1.309497739  1.317130189  1.325039442
## 41  -0.422461859 -0.445227160 -0.558711579 -0.558493552 -0.558267619
## 42  -3.798921302 -3.795041361 -3.791498508 -3.787940351 -3.784468358
## 43  0.253992805  0.261630970  0.269434146  0.277457680  0.285772201
## 44  0.868405903  0.883329290  0.893191785  0.903332795  0.913841584
## 45  0.101551231  0.106718642  0.111997687  0.117425810  0.122954910
## 46  0.377506336  0.387048762  0.396619911  0.405030191  0.412326918

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## 47 -0.985987464 -0.983251230 -0.982384148 -0.981492580 -0.980568679
## 48  0.760883144  0.780521138  0.800583380  0.821212172  0.842589103
## 49 -0.029792450 -0.029881533 -0.029972540 -0.030116436 -0.030873976
## 50 -0.354759035 -0.338527812 -0.321187347 -0.303357193 -0.285487276
## 51 -0.793110919 -0.792954600 -0.792787544 -0.792558944 -0.792292632
## 52 -0.462767670 -0.460913153 -0.459018573 -0.457070491 -0.455107840
## 53  0.919037636  0.921946520  0.924918247  0.927973894  0.930991346
## 54 -1.387374827 -1.363513515 -1.339136718 -1.315050484 -1.301442394
## 55 -1.352406554 -1.345761676 -1.338973246 -1.331993113 -1.324917386
## 56 -3.212323345 -3.208934065 -3.205471565 -3.201911285 -3.198299549
## 57 -1.070155571 -1.049125768 -1.027641650 -1.006425199 -0.994578249
## 58 -1.396253156 -1.381116581 -1.364443249 -1.347299068 -1.329533125
## 59  0.204495164  0.226412993  0.249267022  0.272766440  0.296287698
## 60 -2.158328588 -2.145272916 -2.131935197 -2.118220826 -2.104009080
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## 288 0.405359515 0.459947692 0.515622183 0.568940995 0.616480833
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## 314 1.843860891 1.910337355 1.965403697 2.009914967 2.057429242
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## 377 0.722212712 0.779740073 0.849937873 0.913301757 0.955363026
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## 488 0.723995402 0.804872376 0.865632668 0.935030787 0.998546540
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## 503 0.6661959053 0.732815321 0.805447598 0.876633550 0.943075150
## 504 0.130116900 0.206639926 0.278638424 0.348660763 0.410300032
## 505 0.649746604 0.723207984 0.778187738 0.866944439 0.931655514
## 506 1.229433366 1.313678260 1.396000113 1.463336747 1.532488250
## 507 0.753525856 0.822352489 0.895071061 0.954745095 1.010196022
## 508 0.266052661 0.352840995 0.431795262 0.497490076 0.548893496
## 509 0.286694889 0.376714197 0.464084326 0.535995460 0.598410770
## 510 0.666421361 0.744140794 0.826197361 0.909313711 0.988329414
## 511 -0.481564497 -0.396523840 -0.308082465 -0.225210422 -0.155330071
## 512 0.859916148 0.951666116 1.041175722 1.121501861 1.194219913
## 513 -0.008959475 0.073483914 0.149132307 0.225482386 0.298070075
## 514 0.064140885 0.142834210 0.227321687 0.311614593 0.387415785
## 515 -0.651339064 -0.557418417 -0.473831233 -0.391506914 -0.316480157
## 516 -0.560258352 -0.478555288 -0.406808675 -0.328711756 -0.249414919
## 517 -0.394297602 -0.318512936 -0.240714177 -0.163471208 -0.090190197
## 518 0.701616186 0.788023271 0.874901933 0.944720982 1.023471997
## 519 -0.593086338 -0.519375511 -0.443115689 -0.367411556 -0.296333027
## 520 0.993255141 1.068945069 1.141270958 1.215558397 1.291187974
## 521 -1.108633101 -1.030375713 -0.959649149 -0.950295820 -0.882142959
## 522 0.460287696 0.549217900 0.627586607 0.700201482 0.769453185
## 523 1.815673205 1.894391538 1.964850291 2.034256362 2.087646869
## 524 0.954544780 1.034207072 1.099184553 1.169549387 1.239135462
## 525 -0.136317596 -0.058796312 0.031740830 0.101271612 0.158241858
## 526 -0.474359502 -0.394121091 -0.322716895 -0.238124146 -0.151438853
## 527 0.104139464 0.168346689 0.241097541 0.317618278 0.389706248
## 528 -0.014214921 0.078748014 0.150403200 0.222404504 0.291555469
## 529 1.823275373 1.894700357 1.958092912 2.021356794 2.094385328
## 530 0.980831179 1.053554803 1.129594896 1.208668189 1.281469818
## 531 -0.278446526 -0.202265556 -0.119051981 -0.032603860 0.048260868
## 532 0.156602300 0.236614272 0.307294675 0.378681731 0.436830563

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## 534  2.464955490  2.527548948  2.597444218  2.653495930  2.712847675
## 535  0.157649801  0.235382394  0.296826760  0.364814188  0.434869594
## 536 -0.164597276 -0.098329986 -0.030165419  0.028917600  0.089520379
## 537  0.613993613  0.685983678  0.750823540  0.816116060  0.879519989
## 538  0.185638047  0.269326831  0.349436513  0.425127579  0.487338368
## 539  1.843173331  1.916831981  1.987380872  2.052920715  2.111345300
## 540  0.296994724  0.384072992  0.463847321  0.531378981  0.585981391
## 541  0.560665823  0.653520218  0.747205260  0.832513931  0.898805132
## 542 -1.618096361 -1.537766436 -1.469460531 -1.397865328 -1.301798935
## 543  0.030349914  0.121347960  0.195412135  0.257172291  0.306208510
## 544 -0.073820921  0.013601621  0.094020788  0.161208242  0.238464656
## 545  1.583594429  1.672409964  1.750560180  1.816746473  1.879821988
## 546  0.237460867  0.312601497  0.395655374  0.461324982  0.520090539
## 547  0.711678477  0.798663009  0.869431236  0.937181867  1.008713907
## 548  1.520906436  1.595198080  1.673001056  1.749729673  1.819703291
## 549  0.471645086  0.555834710  0.636054596  0.711921069  0.786226153
## 550  0.640796152  0.727001860  0.800941934  0.879762123  0.954921258
## 551  0.922331970  1.007046278  1.089377808  1.165684966  1.232475360
## 552  1.964722525  2.047924984  2.113357026  2.185017977  2.246337878
## 553 -0.813676764 -0.733578684 -0.658614790 -0.584342463 -0.511298710
## 554 -0.294762446 -0.201884571 -0.115512770 -0.030239697  0.047057169
## 555  1.227773870  1.300084390  1.367239042  1.427489358  1.479511485
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## 558  0.519563949  0.599301018  0.678624686  0.757233205  0.812159981
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## 579  1.752602614  1.831539794  1.926133773  1.992202697  2.060903032
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## 586  1.543564162  1.627490977  1.710959794  1.788200353  1.853069741

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## 587 0.634208852 0.727799568 0.805231450 0.871653578 0.941831432
## 588 2.009995372 2.091530127 2.163885642 2.234207552 2.295710149
## 589 1.252976489 1.340023094 1.426810793 1.512053925 1.591298875
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## 591 1.081104547 1.160917987 1.234514765 1.300401616 1.360106199
## 592 0.990658804 1.069075017 1.141102917 1.229778267 1.292579581
## 593 -0.286374270 -0.214844852 -0.146679053 -0.072103127 -0.012130577
## 594 -1.782172893 -1.686984410 -1.609441079 -1.528868514 -1.459547976
## 595 -1.038134909 -0.974579400 -0.897473513 -0.826423930 -0.755266015
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## 599 0.089225460 0.171781662 0.248022728 0.323759353 0.390572785
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## 601 0.372742601 0.470221178 0.562955087 0.648208607 0.725302319
## 602 -0.152702963 -0.072173388 0.009277722 0.089770742 0.155338036
## 603 1.137849696 1.221824700 1.295950978 1.358964287 1.414338494
## 604 0.056799092 0.133444026 0.202238124 0.277000989 0.354307704
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## 608 -1.831637384 -1.748206960 -1.672030602 -1.609390557 -1.551259338
## 609 0.212954631 0.302149973 0.373252249 0.444251580 0.514360115
## 610 1.324829693 1.408902023 1.483871303 1.569302586 1.633322608
## 611 0.728022343 0.812729425 0.892960746 0.965171742 1.029636586
## 612 0.604650319 0.673563428 0.740347333 0.808592257 0.879172374
## 613 0.985723269 1.066130803 1.136371617 1.203306222 1.266177841
## 614 0.993306450 1.082992626 1.168384189 1.243770029 1.305922029
## 615 1.502817788 1.581511717 1.667684831 1.771678540 1.835875718
## 616 0.621441614 0.695744702 0.772539820 0.827882877 0.904833767
## 617 0.910325028 0.994903725 1.069906311 1.143876612 1.213960386
## 618 2.081905470 2.161303380 2.239418380 2.312167225 2.391849160
## 619 0.916851755 0.998879215 1.093921666 1.169689763 1.234623766
## 620 0.896305830 0.967741245 1.038467162 1.108013302 1.174427716
## 621 0.865047374 0.952669321 1.032559576 1.103568717 1.169468888
## 622 1.832585116 1.908561998 1.985442094 2.061840637 2.133380245
## 623 1.588551092 1.664802067 1.733373422 1.801981635 1.868282851
## 624 1.295959346 1.369859988 1.438684704 1.501139301 1.557448119
## 625 1.374290929 1.447963615 1.527525304 1.590400760 1.659541043
## 626 0.018852865 0.098465422 0.174790633 0.244683395 0.318282648
## 627 -0.066276541 0.012347927 0.085254759 0.150630032 0.209416785
## 628 1.477755128 1.564042585 1.639521389 1.719441060 1.770146419
## 629 -0.060453517 0.033025104 0.105549028 0.180505946 0.254357530
## 630 2.704444524 2.786299524 2.871103181 2.954256012 3.029887279
## 631 -1.183767247 -1.116731572 -1.040334712 -0.970479992 -0.901452998
## 632 0.314169126 0.389021035 0.460911561 0.529872577 0.593970888
## 633 -0.104026533 -0.022316964 0.067851012 0.142447781 0.218048042
## 634 -1.416273705 -1.341304742 -1.263862424 -1.185362351 -1.107976657
## 635 3.141996327 3.201958773 3.273338890 3.360537210 3.422700486
## 636 1.192337899 1.280898690 1.364597078 1.443476985 1.517775365
## 637 -1.228261157 -1.155455270 -1.080832965 -1.015429173 -0.953580076
## 638 -0.120100455 -0.041732178 0.040780005 0.123621216 0.201017024
## 639 0.219135624 0.295434140 0.355772958 0.415103470 0.473257815
## 640 -0.800656654 -0.715728359 -0.640413649 -0.572028067 -0.510288928

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## 645  0.470493032  0.564191160  0.631723122  0.700690370  0.769859206
## 646  0.467474937  0.541669873  0.623579559  0.697654491  0.773691360
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## 648  0.050812173  0.131121735  0.201815055  0.277065463  0.345098659
## 649  1.502513812  1.570489856  1.642451350  1.705730765  1.772241434
## 650  0.333664867  0.422858040  0.513677569  0.598493377  0.660909419
## 651  1.604687988  1.682826917  1.759717516  1.830899384  1.898615726
## 652  1.187665984  1.251289173  1.321823493  1.390409533  1.464370226
## 653  0.303431654  0.386496982  0.469963567  0.549646102  0.621803066
## 654 -1.015100103 -0.911908506 -0.806712355 -0.707842766 -0.626515523
## 655  0.432588862  0.505690740  0.584694937  0.667680605  0.731310890
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## 657  1.084622480  1.173049535  1.248954900  1.312873861  1.369119270
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## 663  1.134529649  1.221674734  1.305578983  1.382461313  1.450206433
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## 667  0.686266067  0.757781285  0.824554711  0.885155398  0.947235499
## 668  0.117109983  0.204269495  0.285555566  0.369265732  0.449490682
## 669 -0.301988048 -0.220408629 -0.136007393 -0.047557312  0.041571706
## 670  0.298292838  0.368111754  0.439347823  0.511245851  0.581875918
## 671  1.567970057  1.644697750  1.718504916  1.781027771  1.841043962
## 672  1.541215491  1.617685557  1.694905322  1.759610940  1.811558597
## 673  0.743628463  0.829201557  0.906913736  0.985973109  1.050269042
## 674 -0.207193053 -0.132757092 -0.063924221 -0.004479979  0.046941023
## 675  0.060609217  0.145524859  0.226762563  0.300441955  0.364561141
## 676 -0.881058780 -0.791068333 -0.704416079 -0.624578117 -0.554198396
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## 681  0.937204369  1.017400611  1.095287983  1.175036382  1.234069902
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## 683 -0.485794912 -0.405018336 -0.327073496 -0.266156509 -0.209244849
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## 690 -0.621936466 -0.544742821 -0.468172071 -0.404206252 -0.343778785
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## 696 -0.120949283 -0.041626757  0.027342730  0.087043009  0.140995970
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## 698  0.648460935  0.725772620  0.808138851  0.883751685  0.945880730
## 699  0.638326194  0.716164736  0.796434246  0.867772394  0.917734367
## 700  0.082547580  0.157246389  0.230247020  0.301567068  0.369881643
## 701  1.302881612  1.384224974  1.464747155  1.546862746  1.630284683
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## 703 -1.339819255 -1.243912098 -1.150881967 -1.060357265 -0.984019750
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## 711  0.078044730  0.146051021  0.209818419  0.273650040  0.353164917
## 712  0.034034642  0.124780547  0.209301472  0.284365667  0.348024421
## 713  0.650126845  0.715717038  0.788032427  0.870959910  0.947853165
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## 718 -0.798967747 -0.706613159 -0.629294727 -0.558585681 -0.489920141
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## 37 -0.556437443 -0.555031609 -0.553602254 -0.5522368025 -0.5512973886
## 38 -0.979812780 -0.965207519 -0.950357897 -0.9361721763 -0.9251833290
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## 365  0.008409989  0.033628777  0.053159007  0.0665366053  0.0732206621
## 366 -1.446587616 -1.404936113 -1.374978959 -1.3587861930 -1.3457546282
## 367 -1.105947587 -1.066280452 -1.039804231 -1.0307173356 -1.0401898449
## 368  0.317040194  0.351804497  0.379829698  0.3992306232  0.4115231581
## 369 -1.098524324 -1.050740042 -1.002156278 -0.9602819367 -0.9412111601
## 370 -0.318231712 -0.291029205 -0.263371570 -0.2369504619 -0.2152317333
## 371 -2.154509378 -2.119995276 -2.076649415 -2.0601130557 -2.0464025072
## 372  0.693970008  0.733747817  0.774191151  0.8080999557  0.8199707252
## 373 -0.306910670 -0.231071469 -0.203545962 -0.1772510747 -0.1554218169
## 374  1.141912430  1.177923945  1.211322065  1.2350915366  1.2542177039
## 375  0.874672801  0.913870307  0.953723630  0.9917951771  1.0224752855
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## 383  1.511015739  1.568494987  1.595134382  1.6205827743  1.6412119288
## 384 -0.393683855 -0.347110086 -0.299757089 -0.2603213250 -0.2475458088
## 385 -0.715436177 -0.676483599 -0.653467229 -0.6314798825 -0.6137011304
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## 404  1.633256521  1.676496095  1.712968461  1.7391789700  1.7528911375

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## 406 1.202007019 1.255373524 1.300038740 1.3323788743 1.3510002024
## 407 -0.614313670 -0.566232891 -0.528285652 -0.5051303030 -0.5051946835
## 408 -0.287227616 -0.244450132 -0.220439758 -0.1870859463 -0.1648265571
## 409 1.739420146 1.771491666 1.758781226 1.7967217726 1.8327017579
## 410 -0.173388278 -0.111890237 -0.064572544 -0.0356596894 -0.0236085506
## 411 1.738806303 1.786822565 1.824625005 1.8528756366 1.8671391099
## 412 1.843434637 1.894232317 1.943493693 1.9732657370 1.9831087427
## 413 0.910935217 0.955955480 1.000422762 1.0265709748 1.0173085643
## 414 -0.042092789 0.013209111 0.062459255 0.0952320594 0.1083422397
## 415 1.141532875 1.186035891 1.232182323 1.2658589002 1.2802032212
## 416 0.010633865 0.069208473 0.107719792 0.1352320086 0.1511918777
## 417 1.753006644 1.810731865 1.859555124 1.8950899314 1.9149707465
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## 462 0.387856046 0.439321097 0.477859322 0.5036499320 0.5185489011
## 463 1.322531535 1.381388780 1.428641448 1.4642134545 1.4843163004
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## 496 0.195448984 0.252576703 0.302214102 0.3398268988 0.3626376047
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## 522 0.826802202 0.877593923 0.921648752 0.9525310517 0.9613258158
## 523 2.151056372 2.200731459 2.231244189 2.2573498459 2.2728735059
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## 545 1.928468210 1.973793308 2.021247987 2.0486595507 2.0641584790
## 546 0.583121465 0.626517767 0.646070139 0.6641675481 0.6161174092
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## 548 1.880870340 1.931989721 1.973340997 2.0019799944 2.0240111730
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## 550 1.015150838 1.055304291 1.092151281 1.1369220719 1.1719611475
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## 574 -0.815451710 -0.766596833 -0.736049504 -0.7117863778 -0.6955517515
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## 591 1.428700961 1.482344011 1.521033219 1.5493139639 1.5634597087
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## 593 0.053426985 0.100907328 0.141475952 0.1716348941 0.1890671669
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## 597 2.490717227 2.558556126 2.609016547 2.6385450565 2.6498480220
## 598 -0.035452361 0.019224476 0.064389760 0.0948798973 0.1100323217
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## 601 0.793814060 0.853235402 0.901316552 0.9321588377 0.9450636581
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## 629	0.310278167	0.359539162	0.399744719	0.4271818618	0.4408135336
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## 633	0.274955253	0.323604942	0.361574506	0.3859178934	0.3970806422
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## 643	1.892862312	1.936105789	1.973411569	2.0004998039	2.0152305799
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## 645	0.835981914	0.893833814	0.931763594	0.9604911490	0.9779270492
## 646	0.844107515	0.902665528	0.946995793	0.9758194105	0.9911990425
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## 654	-0.571708783	-0.525640255	-0.482471224	-0.4449011059	-0.4262487628
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## 681 1.4100667426 1.374467461 1.285157630 1.1763685676 1.0254254487
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## 683 -0.0700609572 -0.113535147 -0.219804126 -0.3554124715 -0.5545127104
## 684 0.7391006904 0.694632746 0.581124436 0.4565104528 0.3078632230
## 685 1.0433922036 1.010745341 0.938493496 0.8574981200 0.7575812935
## 686 1.5034035748 1.464806362 1.393034300 1.2884197189 1.1127322404
## 687 0.3171669591 0.272904577 0.167373541 0.0304244288 -0.1745150135
## 688 1.5425659507 1.487579347 1.367297271 1.2362118635 1.0817474912
## 689 0.8659629757 0.829306836 0.742285448 0.6341040002 0.4801310964
## 690 -0.1823196859 -0.223904547 -0.338075610 -0.4615560782 -0.6051825766
## 691 0.4166515388 0.374466821 0.268676785 0.1567998788 0.0317506729
## 692 1.9744590687 1.935476209 1.848688644 1.7374074067 1.5731206055
## 693 0.5529931930 0.499038370 0.393128861 0.2703741908 0.1111657251
## 694 1.4194016508 1.360524762 1.217614816 1.0752662777 0.9341326556
## 695 0.5920509922 0.548012408 0.443563709 0.3172519997 0.1436276151
## 696 0.2963492619 0.248655983 0.169589658 0.0726956013 -0.0627785811
## 697 0.6800680455 0.622331702 0.502942276 0.3726148108 0.2186168695
## 698 1.1598080419 1.122814890 1.040631427 0.9353890680 0.7802460754
## 699 1.0656678349 1.028151301 0.958429023 0.8498294287 0.6570973251
## 700 0.5533179809 0.520652390 0.438419521 0.3318438241 0.1725889989
## 701 1.8136619473 1.759998442 1.664368639 1.5351121638 1.3330858448
## 702 2.2973750683 2.242278791 2.133570590 2.0106706615 1.8570591073
## 703 -0.7422078392 -0.777382795 -0.872716657 -1.0109243438 -1.2419131890
## 704 2.4896987410 2.447282237 2.335677252 2.2122168454 2.0631006955
## 705 2.2306755314 2.185288345 2.081943457 1.9592998845 1.7948929660
## 706 0.0957020526 0.042657218 -0.046321429 -0.1676493755 -0.3589828648
## 707 2.0672561064 2.037962900 1.968384467 1.8712642977 1.7145423964
## 708 4.0207722168 3.981035549 3.893373383 3.7754086378 3.5918675566

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## 709 -0.2188981133 -0.267026508 -0.383799049 -0.5159648681 -0.6814425291
## 710 -0.6070420779 -0.643910366 -0.736568993 -0.8411502101 -0.9715325248
## 711 0.4975102913 0.451008592 0.338282246 0.2079479828 0.0395092820
## 712 0.4700082190 0.419648446 0.309894237 0.1697898769 -0.0359937695
## 713 1.1387574686 1.099424858 1.005543364 0.8849471291 0.7065388226
## 714 1.6190295922 1.566673938 1.447666936 1.3254524780 1.1962969207
## 715 1.2292517980 1.204528905 1.149139776 1.0717080674 0.9465750826
## 716 1.9971027833 1.957820414 1.870653496 1.7671510899 1.6282978519
## 717 0.2125205466 0.170113006 0.056020486 -0.0734717549 -0.2362897843
## 718 -0.3171567291 -0.354138707 -0.442378259 -0.5504817166 -0.7015716842
## 719 0.2697698881 0.216407385 0.119432045 0.0127013284 -0.1151405220
## 720 1.0079571232 0.954599321 0.853709192 0.7482272182 0.6328082572
## 721 -0.7547108231 -0.787164448 -0.871719141 -0.9750497663 -1.1190124711
## 722 -0.2408458216 -0.296359264 -0.419423588 -0.5614660763 -0.7445782893
## 723 -0.0181676384 -0.069856432 -0.176963526 -0.2966355714 -0.4434988154
## 724 0.1483198153 0.095470974 -0.051474833 -0.2300739426 -0.4771724250
## 725 0.7589981161 0.719771861 0.641666939 0.5353570294 0.3680100784
## 726 1.6849505115 1.645283716 1.563512920 1.4586490092 1.3038104141
## 727 1.1318714457 1.090205007 0.991756623 0.8683299633 0.6908490302
## 728 -0.7876232547 -0.826961691 -0.893460175 -0.9942839109 -1.1693892534
## 729 0.6184988778 0.574732729 0.485300922 0.3803118219 0.2416559410
## 730 0.2923937013 0.241576486 0.125131539 0.0074862474 -0.1127566522
## 731 0.1297471281 0.089958467 -0.009775817 -0.1319382813 -0.3026364786
## 732 0.4761401830 0.439368562 0.345847614 0.2420782902 0.1161309570
## 733 2.3852023928 2.340508519 2.269828445 2.1720789743 2.0157499388
## 734 2.3157339535 2.282755690 2.203924168 2.1161812774 2.0091537301
## 735 1.2592942636 1.227373002 1.152269715 1.0580838973 0.9226025014
## 736 1.3445453846 1.313265607 1.238503228 1.1438441081 1.0061274213
## 737 1.9618621190 1.917898336 1.816381678 1.7009861497 1.5555560354
## 738 0.3636940391 0.312720064 0.208807436 0.1006099116 -0.0168603498
## 739 0.9611098603 0.926446759 0.838750967 0.7195855954 0.5323184379
## 740 0.5721503595 0.519043493 0.403200505 0.2537767716 0.0316825830
## 741 1.1336406860 1.101637397 1.018449298 0.9301303355 0.8307079235
## 742 1.2689512656 1.224205349 1.111110161 0.9844745524 0.8285367810
## 743 2.2576757665 2.214551050 2.101819252 1.9651974909 1.7768766216
## 744 2.5576094039 2.513102355 2.399972701 2.2647885103 2.0818771685
## 745 2.4494891458 2.410432388 2.309951290 2.2004147695 2.0712818518
## 746 0.6383671989 0.594151897 0.479184411 0.3612553703 0.2369173748
## 747 1.3833483115 1.351121254 1.290965434 1.2027530208 1.0538246983
## 748 2.7470672874 2.685692543 2.566288341 2.4342573803 2.2749014678
## 749 0.8930644629 0.856426074 0.770574138 0.6692661534 0.5345104888
## 750 1.0316571680 0.988843146 0.894860409 0.7802076904 0.6208240730
## 751 0.1239565195 0.082412324 -0.023582847 -0.1541697811 -0.3379745541
## 752 0.7702552600 0.730613906 0.631027733 0.5135357024 0.3572944790
## 753 1.4587255848 1.418207623 1.342563900 1.2535597328 1.1356428788
## 754 -0.0303988309 -0.071719423 -0.141480163 -0.2328853980 -0.3711304284
## 755 0.9604703594 0.915165893 0.838241236 0.7397900343 0.5947542867
## 756 2.3024873750 2.262492340 2.148160498 2.0229409210 1.8741597284
## 757 2.0967886453 2.049510040 1.947023352 1.8167841016 1.6264868828
## 758 0.5009718978 0.455628244 0.346722085 0.1991969727 -0.0319015393
## 759 0.2305859558 0.188361318 0.094144605 -0.0270370752 -0.2065723276
## 760 0.8553391783 0.806172896 0.682865949 0.5472562605 0.3850228087
## 761 -0.1823007783 -0.218549958 -0.287728939 -0.3887121531 -0.5585213631
## 762 1.0325968638 0.994115497 0.891356666 0.7777145484 0.6405204371

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## 763 1.3996536784 1.355412962 1.245299525 1.1050607054 0.8996290121
## 764 -0.2779931258 -0.317461278 -0.426683727 -0.5630151484 -0.7580117773
## 765 1.9503861694 1.898962656 1.770974429 1.6408700908 1.5061863796
## 766 2.2523995440 2.207742019 2.123960993 2.0157345771 1.8546070802
## 767 0.9090131103 0.869911554 0.785019378 0.6845284815 0.5502811519
## 768 1.4424295296 1.401550349 1.293128814 1.1823817157 1.0666019774
## 769 0.9445352630 0.907184752 0.826712885 0.7252074954 0.5781844811
## 770 1.4903921239 1.425538993 1.298473403 1.1634595397 1.0112452053
## 771 2.4249672061 2.384726032 2.299310588 2.2020561949 2.0791817102
## 772 1.2242081897 1.186099494 1.089626364 0.9656146614 0.7820080771
## 773 2.8736684374 2.822870456 2.719708807 2.6188463783 2.5229595780
## 774 2.4955537680 2.460286090 2.390444049 2.2826267375 2.0926289915
##           115      116      117      118      119
## 0   -0.812816668 -8.368472e-01 -0.8609020316 -0.885024204 -9.092043e-01
## 1   -1.341322308 -1.361167e+00 -1.3810320430 -1.400952556 -1.420921e+00
## 2   -2.155829896 -2.213640e+00 -2.2693030808 -2.319045038 -2.368669e+00
## 3   -2.011577649 -2.034819e+00 -2.0580845989 -2.081414955 -2.104801e+00
## 4    0.370409488  1.454920e-01 -0.0456396501 -0.143552868 -2.358112e-01
## 5   -0.542199136 -5.583756e-01 -0.5794871668 -0.614214923 -6.424248e-01
## 6   -0.305647582 -3.428968e-01 -0.3927155614 -0.477214831 -5.593686e-01
## 7   -0.527128456 -5.305774e-01 -0.5340298236 -0.537491916 -5.409623e-01
## 8   -1.512006937 -1.536971e+00 -1.5618935657 -1.586700625 -1.610183e+00
## 9   -0.507409436 -5.180461e-01 -0.5286935975 -0.539370863 -5.500737e-01
## 10  -0.953343233 -9.871244e-01 -1.0209397675 -1.054849780 -1.088841e+00
## 11  0.490960570  4.803495e-01  0.4700023497  0.460383580  4.512389e-01
## 12  -2.501806801 -2.517304e+00 -2.5328176764 -2.548374379 -2.563968e+00
## 13  -1.633270502 -1.658229e+00 -1.6834683481 -1.709485423 -1.734556e+00
## 14  -1.955042685 -1.956085e+00 -1.9571274546 -1.958173286 -1.959222e+00
## 15  -1.201902109 -1.249290e+00 -1.2918685740 -1.321176035 -1.350842e+00
## 16  -2.550946519 -2.571950e+00 -2.5930672894 -2.614498023 -2.638259e+00
## 17  -1.716810260 -1.724424e+00 -1.7325454372 -1.742070786 -1.752008e+00
## 18  -1.204302264 -1.207737e+00 -1.2111749126 -1.214622598 -1.218079e+00
## 19  -0.553227465 -5.574425e-01 -0.5616618896 -0.565893045 -5.701344e-01
## 20  -0.488523864 -5.054512e-01 -0.5237804227 -0.545977748 -5.693395e-01
## 21  -0.176795920 -1.961307e-01 -0.2164200804 -0.239343233 -2.600214e-01
## 22  0.624651196  6.268094e-01  0.6289698055  0.631136249  6.333079e-01
## 23  -0.895394827 -8.975868e-01 -0.8997809013 -0.901981189 -9.041868e-01
## 24  -0.378780750 -4.032099e-01 -0.4289844921 -0.458471393 -4.850924e-01
## 25  -2.186569918 -2.199408e+00 -2.2122589538 -2.225145939 -2.238064e+00
## 26  -0.403585149 -4.221824e-01 -0.4407985890 -0.459466827 -4.781799e-01
## 27  -0.592011710 -5.847965e-01 -0.5775740071 -0.570331288 -5.630712e-01
## 28  0.288793571  2.522922e-01  0.2157538163  0.179113196  1.423847e-01
## 29  -1.973359987 -1.974444e+00 -1.9755287021 -1.976616645 -1.977707e+00
## 30  0.769969903  7.543123e-01  0.7386389010  0.722921606  7.071666e-01
## 31  -0.245911459 -2.768581e-01 -0.3078360539 -0.338900720 -3.700399e-01
## 32  -2.093142766 -2.084669e+00 -2.0761866090 -2.067680500 -2.059154e+00
## 33  0.611435532  6.341237e-01  0.6568349169  0.679609660  7.024390e-01
## 34  -1.823757388 -1.837098e+00 -1.8546147036 -1.883653081 -1.907593e+00
## 35  0.086585506  6.124061e-02  0.0358699908  0.010428395 -1.507424e-02
## 36  -2.242253153 -2.267351e+00 -2.2924736784 -2.317666962 -2.342921e+00
## 37  -0.596100852 -6.110844e-01 -0.6270388760 -0.645672266 -6.648257e-01
## 38  -0.968384274 -9.752357e-01 -0.9820940806 -0.988971648 -9.958657e-01
## 39  -1.170115799 -1.162262e+00 -1.1543994612 -1.146515311 -1.138612e+00
## 40  1.455040409  1.469367e+00  1.4837079816  1.498089159  1.512505e+00

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## 41 -0.450135376 -4.332313e-01 -0.4163101178 -0.399341572 -3.823323e-01
## 42 -3.832151916 -3.845720e+00 -3.8593019867 -3.872921904 -3.886575e+00
## 43 0.336431181 3.379594e-01 0.3394890900 0.341023100 3.425608e-01
## 44 0.988505891 9.921109e-01 0.9957196159 0.999338403 1.002966e+00
## 45 0.078815915 5.291516e-02 0.0247687688 -0.009573563 -4.572663e-02
## 46 0.343120094 3.169588e-01 0.2897900744 0.259841998 2.330014e-01
## 47 -1.040739762 -1.054753e+00 -1.0686814155 -1.082376293 -1.095733e+00
## 48 0.867966461 8.553946e-01 0.8428099721 0.830190141 8.175400e-01
## 49 -0.137248907 -1.582077e-01 -0.1789492282 -0.199091538 -2.194476e-01
## 50 -0.301380862 -3.197456e-01 -0.3381290549 -0.356563901 -3.750430e-01
## 51 -0.871698292 -8.742300e-01 -0.8767642129 -0.879305548 -8.818530e-01
## 52 -0.623003391 -6.445441e-01 -0.6661067657 -0.687729708 -7.094045e-01
## 53 0.555433755 4.355655e-01 0.3168522949 0.201325720 9.860125e-02
## 54 -1.405428705 -1.448036e+00 -1.4906872971 -1.533457535 -1.576330e+00
## 55 -1.438402111 -1.479592e+00 -1.5223616540 -1.569486976 -1.617653e+00
## 56 -3.248241168 -3.266889e+00 -3.2860917536 -3.306824555 -3.327803e+00
## 57 -1.103732609 -1.145125e+00 -1.1865586815 -1.228108639 -1.269758e+00
## 58 -1.300013833 -1.317253e+00 -1.3345089356 -1.351813511 -1.369160e+00
## 59 0.169992954 1.220085e-01 0.0739753736 0.025807855 -2.247523e-02
## 60 -2.219979965 -2.266179e+00 -2.3124249527 -2.358800269 -2.405287e+00
## 61 0.356131569 3.762926e-01 0.3964740517 0.416711984 4.369985e-01
## 62 -0.492016813 -5.153920e-01 -0.5404941091 -0.570361202 -6.015937e-01
## 63 -1.210654608 -1.203161e+00 -1.1956594977 -1.188137154 -1.180597e+00
## 64 -1.308836511 -1.319130e+00 -1.3296798682 -1.340936593 -1.352305e+00
## 65 -1.956311501 -2.006526e+00 -2.0593183918 -2.119224988 -2.174936e+00
## 66 -1.680670293 -1.696875e+00 -1.7130955963 -1.729361851 -1.745667e+00
## 67 -0.224986734 -2.442934e-01 -0.2636195675 -0.282999849 -3.024266e-01
## 68 -1.178497191 -1.266958e+00 -1.3428993524 -1.384297931 -1.433081e+00
## 69 -0.714922602 -7.175039e-01 -0.7200877191 -0.722678816 -7.252761e-01
## 70 0.452852828 4.371399e-01 0.4214109436 0.405638024 3.898273e-01
## 71 -1.609574072 -1.611360e+00 -1.6131485336 -1.614941674 -1.616739e+00
## 72 0.477393845 4.650160e-01 0.4523336790 0.438811276 4.249314e-01
## 73 -1.204629448 -1.219541e+00 -1.2355619371 -1.254644615 -1.271886e+00
## 74 0.368304498 3.341614e-01 0.2999835793 0.265710177 2.313545e-01
## 75 -1.097751072 -1.080134e+00 -1.0624985090 -1.044813951 -1.027087e+00
## 76 -0.722915638 -7.855205e-01 -0.8545853231 -0.941473730 -1.017426e+00
## 77 -1.188513388 -1.191904e+00 -1.1952977856 -1.198701200 -1.202113e+00
## 78 -0.842894070 -8.770114e-01 -0.9111634560 -0.945411007 -9.797407e-01
## 79 -0.639384918 -6.832116e-01 -0.7270827854 -0.771076694 -8.151762e-01
## 80 -1.484997531 -1.469673e+00 -1.4543336469 -1.438951014 -1.423531e+00
## 81 0.230254978 2.102348e-01 0.1902303928 0.170269346 1.513353e-01
## 82 -1.969039855 -1.972691e+00 -1.9763462052 -1.980011459 -1.983686e+00
## 83 -2.642758075 -2.651452e+00 -2.6601546411 -2.668881683 -2.677630e+00
## 84 0.235970300 2.565712e-01 0.2771929656 0.297872445 3.186015e-01
## 85 -0.574933536 -6.584802e-01 -0.7393594108 -0.812879076 -8.815173e-01
## 86 -0.233439603 -2.818400e-01 -0.3318154429 -0.386136861 -4.390009e-01
## 87 -2.339209714 -2.361143e+00 -2.3839142671 -2.408999131 -2.434406e+00
## 88 -1.830914261 -1.865643e+00 -1.9004074083 -1.935268862 -1.970214e+00
## 89 -1.931534094 -1.984411e+00 -2.0456619718 -2.130018092 -2.209306e+00
## 90 -0.054944533 -8.403617e-02 -0.1131573320 -0.142359964 -1.716327e-01
## 91 -0.852951748 -8.724238e-01 -0.8919156816 -0.911462060 -9.310553e-01
## 92 0.317780911 2.452900e-01 0.1744390544 0.108112973 5.122394e-02
## 93 -1.903949682 -1.930043e+00 -1.9561620530 -1.982354552 -2.008610e+00
## 94 -2.465970478 -2.499403e+00 -2.5328693238 -2.566429338 -2.600070e+00

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## 95 -0.959143740 -9.763423e-01 -0.9935582956 -1.010822465 -1.028128e+00
## 96 -0.523578028 -5.432925e-01 -0.5630270769 -0.582816815 -6.026540e-01
## 97 0.593672128 5.970304e-01 0.6003921625 0.603763289 6.071425e-01
## 98 -1.961858881 -1.964831e+00 -1.9678051424 -1.970788103 -1.973778e+00
## 99 -1.021822116 -1.069642e+00 -1.1169490238 -1.162844089 -1.202468e+00
## 100 -1.429147622 -1.458461e+00 -1.4878049942 -1.517230648 -1.546727e+00
## 101 -1.415248356 -1.431258e+00 -1.4472838543 -1.463354562 -1.479464e+00
## 102 0.062791428 4.885700e-02 0.0346864088 0.019864242 5.291789e-03
## 103 -3.070203056 -3.064220e+00 -3.0582300924 -3.052223818 -3.046203e+00
## 104 -0.730010443 -7.298829e-01 -0.7297552145 -0.729627179 -7.294988e-01
## 105 -1.153601694 -1.152259e+00 -1.1509144726 -1.149566419 -1.148215e+00
## 106 -0.972516587 -9.987516e-01 -1.0256696125 -1.054472041 -1.084017e+00
## 107 -0.446318383 -5.111809e-01 -0.5833534545 -0.675695083 -7.624474e-01
## 108 -0.193014129 -2.096179e-01 -0.2266101148 -0.244674052 -2.631799e-01
## 109 -1.321031080 -1.347897e+00 -1.3747893646 -1.401757376 -1.428790e+00
## 110 -0.712073643 -7.503883e-01 -0.7893879601 -0.830277361 -8.709417e-01
## 111 -1.102995586 -1.145406e+00 -1.1878596552 -1.230431980 -1.273106e+00
## 112 -0.372770648 -3.237147e-01 -0.2746089609 -0.225365844 -1.760046e-01
## 113 -0.020291571 -4.702803e-02 -0.0737916344 -0.100630108 -1.275330e-01
## 114 -0.874361983 -9.094658e-01 -0.9446052013 -0.979842931 -1.015165e+00
## 115 -0.385709833 -4.189143e-01 -0.4536004906 -0.492375018 -5.244154e-01
## 116 -1.730702186 -1.754045e+00 -1.7760424538 -1.794329274 -1.812813e+00
## 117 -1.653113860 -1.653229e+00 -1.6533452347 -1.653461305 -1.653578e+00
## 118 -1.683017502 -1.715932e+00 -1.7523363763 -1.798367489 -1.836524e+00
## 119 -0.675295720 -6.891298e-01 -0.7029778864 -0.716864732 -7.307849e-01
## 120 0.012808235 8.753614e-05 -0.0129331163 -0.026781372 -4.093668e-02
## 121 0.458944554 3.967397e-01 0.3323464683 0.261915327 2.013280e-01
## 122 -0.688396229 -7.001992e-01 -0.7120141872 -0.723862210 -7.357387e-01
## 123 -2.235361465 -2.275182e+00 -2.3178842058 -2.368534061 -2.410622e+00
## 124 -1.316353361 -1.330505e+00 -1.3446710926 -1.358876771 -1.373117e+00
## 125 -1.655838172 -1.657325e+00 -1.6588132156 -1.660305655 -1.661802e+00
## 126 -1.459275080 -1.474977e+00 -1.4915963235 -1.510744808 -1.530704e+00
## 127 -0.964979501 -1.001231e+00 -1.0404930400 -1.088062498 -1.128289e+00
## 128 -0.788290128 -8.107012e-01 -0.8331349892 -0.855631553 -8.781821e-01
## 129 -0.318846443 -3.344028e-01 -0.3508416246 -0.369715374 -3.892416e-01
## 130 -0.414452693 -4.700387e-01 -0.5258094053 -0.582089734 -6.394856e-01
## 131 -0.275011331 -2.821566e-01 -0.2893092015 -0.296481773 -3.036716e-01
## 132 0.313137157 2.383876e-01 0.1668348469 0.104102674 5.024989e-02
## 133 -0.934398937 -9.452787e-01 -0.9561695497 -0.967090846 -9.780383e-01
## 134 -2.902760944 -2.916976e+00 -2.9316216785 -2.947452389 -2.963571e+00
## 135 -0.608356824 -6.391279e-01 -0.6699301241 -0.700818562 -7.317811e-01
## 136 -0.322101185 -3.286344e-01 -0.3351741928 -0.341732308 -3.483062e-01
## 137 -1.488494668 -1.515455e+00 -1.5421044017 -1.567894496 -1.593981e+00
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## 139 -0.028113287 -5.140555e-02 -0.0750854119 -0.099834670 -1.245864e-01
## 140 0.034135007 3.849807e-02 0.0428655519 0.047245257 5.163547e-02
## 141 0.119556075 1.520311e-01 0.1845391720 0.217138145 2.498153e-01
## 142 -2.004961629 -2.051645e+00 -2.0983748320 -2.145235856 -2.192209e+00
## 143 -0.233647646 -2.416676e-01 -0.2496957052 -0.257746264 -2.658161e-01
## 144 -1.215031827 -1.241231e+00 -1.2674567771 -1.293755916 -1.320118e+00
## 145 -3.063742056 -3.075390e+00 -3.0873534184 -3.100189581 -3.112831e+00
## 146 0.052702747 1.323722e-02 -0.0245768390 -0.057834321 -9.047327e-02
## 147 0.516460616 5.053778e-01 0.4942838117 0.483158748 4.720070e-01
## 148 -2.316883877 -2.336371e+00 -2.3564986871 -2.378392032 -2.400644e+00

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## 149 -0.162014568 -1.736169e-01 -0.1852310814 -0.196877718 -2.085523e-01
## 150 -2.736313096 -2.768350e+00 -2.8020601080 -2.840389751 -2.879855e+00
## 151 1.317278758 1.307157e+00 1.2970241219 1.286863321 1.276678e+00
## 152 -1.062775205 -1.099116e+00 -1.1352322261 -1.170729416 -1.205153e+00
## 153 -2.483696714 -2.507318e+00 -2.5320265308 -2.559735670 -2.584685e+00
## 154 -0.489162720 -4.823405e-01 -0.4755113013 -0.468663025 -4.617983e-01
## 155 -2.735517026 -2.745797e+00 -2.7560878437 -2.766407259 -2.776751e+00
## 156 -2.173693351 -2.163364e+00 -2.1530242241 -2.142655492 -2.132262e+00
## 157 1.036971082 1.029480e+00 1.0211871328 1.010682211 9.997336e-01
## 158 -1.623232921 -1.650449e+00 -1.6762361766 -1.698079948 -1.715548e+00
## 159 -1.149198245 -1.167436e+00 -1.1856927995 -1.204000406 -1.222352e+00
## 160 -0.865519305 -9.393803e-01 -1.0180109527 -1.109801313 -1.188876e+00
## 161 -1.195715204 -1.210126e+00 -1.2253037619 -1.242598046 -1.260416e+00
## 162 1.409550774 1.348694e+00 1.2924597125 1.248977244 1.201154e+00
## 163 -1.006480933 -1.019320e+00 -1.0323914310 -1.046103554 -1.059625e+00
## 164 -0.505397262 -5.465909e-01 -0.5865258011 -0.622987798 -6.602012e-01
## 165 -0.531237183 -5.494368e-01 -0.5669608789 -0.582620855 -5.971266e-01
## 166 -1.494011011 -1.471779e+00 -1.4495240372 -1.427207008 -1.404836e+00
## 167 -0.264936500 -2.626856e-01 -0.2604324246 -0.258172941 -2.559080e-01
## 168 0.559694638 4.143782e-01 0.2758694907 0.156144207 4.871142e-02
## 169 -0.123745997 -1.561789e-01 -0.1881562802 -0.218876823 -2.477559e-01
## 170 -0.474226554 -4.611987e-01 -0.4481576621 -0.435080121 -4.219712e-01
## 171 -0.662709133 -6.631322e-01 -0.6635557523 -0.663980462 -6.644062e-01
## 172 -0.667668796 -6.810967e-01 -0.6945383118 -0.708017488 -7.215290e-01
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## 174 -0.692650898 -6.987983e-01 -0.7049519432 -0.711122801 -7.173085e-01
## 175 0.870332334 8.835932e-01 0.8968675562 0.910179033 9.235224e-01
## 176 -0.827465374 -8.523075e-01 -0.8771748466 -0.902111759 -9.271085e-01
## 177 -0.155035605 -1.824131e-01 -0.2133485449 -0.254100743 -2.931589e-01
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## 179 -1.699072507 -1.691552e+00 -1.6840239989 -1.676474868 -1.668908e+00
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## 181 -1.980935258 -1.973815e+00 -1.9666870600 -1.959539407 -1.952375e+00
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## 184 -1.708200448 -1.676257e+00 -1.6442810630 -1.612215704 -1.580073e+00
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## 189 -0.622846671 -6.516057e-01 -0.6803938491 -0.709262571 -7.382006e-01
## 190 -0.397985288 -4.173363e-01 -0.4367070489 -0.456131941 -4.756034e-01
## 191 0.377241103 3.923202e-01 0.4074145956 0.422551223 4.377242e-01
## 192 -0.195359997 -2.084584e-01 -0.2221158854 -0.237316122 -2.527403e-01
## 193 -0.369297447 -3.634957e-01 -0.3576879701 -0.351864040 -3.460261e-01
## 194 -3.001702421 -3.019256e+00 -3.0365138447 -3.052954371 -3.068304e+00
## 195 -1.407346018 -1.401980e+00 -1.3966081820 -1.391221513 -1.385822e+00
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## 197 -0.692656840 -7.178241e-01 -0.7430169133 -0.768280201 -7.936041e-01
## 198 -1.225951997 -1.284005e+00 -1.3425094317 -1.402260727 -1.463582e+00
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## 200 1.456584567 1.486901e+00 1.5172479749 1.547679963 1.578185e+00
## 201 -0.616304688 -6.324327e-01 -0.6488744811 -0.666182112 -6.838628e-01
## 202 0.721434961 7.512065e-01 0.7810081860 0.810893280 8.408501e-01

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## 203 -0.530581810 -5.337356e-01 -0.5368925231 -0.540058312 -5.432317e-01
## 204 -0.895120940 -8.883988e-01 -0.8816698342 -0.874922045 -8.681581e-01
## 205 1.527236987 1.490970e+00 1.4529566845 1.410125865 1.371523e+00
## 206 1.412847554 1.415469e+00 1.4180926411 1.420723855 1.423361e+00
## 207 -0.405067445 -3.984107e-01 -0.3917472535 -0.385065138 -3.783670e-01
## 208 -0.191216084 -1.866465e-01 -0.1820722327 -0.177485191 -1.728871e-01
## 209 -0.930890885 -9.260398e-01 -0.9211838497 -0.916314285 -9.114330e-01
## 210 0.171088617 1.991657e-01 0.2272712288 0.255455411 2.837072e-01
## 211 0.023346460 1.876455e-02 0.0141779891 0.009578597 4.968170e-03
## 212 1.144651810 1.159730e+00 1.1748231271 1.189958662 1.205131e+00
## 213 0.464374891 4.612707e-01 0.4581634314 0.455047434 4.519240e-01
## 214 1.231942006 1.237430e+00 1.2429233536 1.248432181 1.253954e+00
## 215 1.197049448 1.218161e+00 1.2392939581 1.260486048 1.281729e+00
## 216 2.962914970 2.971732e+00 2.9805589102 2.989410048 2.998282e+00
## 217 0.106898643 1.259430e-01 0.1450066536 0.164123656 1.832865e-01
## 218 0.970756798 9.918756e-01 1.0130158220 1.034215193 1.055465e+00
## 219 0.861529683 8.802651e-01 0.8990195644 0.917826480 9.366785e-01
## 220 1.143066508 1.104218e+00 1.0622906987 1.011869570 9.663146e-01
## 221 -0.607077303 -5.979414e-01 -0.5887961992 -0.579625426 -5.704326e-01
## 222 2.725699890 2.722552e+00 2.7193999538 2.716239571 2.713072e+00
## 223 0.565993030 5.696661e-01 0.5733428669 0.577029935 5.807259e-01
## 224 -0.599664510 -6.023637e-01 -0.6050656979 -0.607775221 -6.104912e-01
## 225 -0.001594720 -3.479715e-02 -0.0680332844 -0.101362397 -1.347715e-01
## 226 0.876665976 8.817003e-01 0.8867397856 0.891793344 8.968590e-01
## 227 1.920133054 1.934545e+00 1.9489713488 1.963438169 1.977940e+00
## 228 1.603446571 1.610361e+00 1.6172825836 1.624223462 1.631181e+00
## 229 -0.640426606 -6.959781e-01 -0.7515860213 -0.807349489 -8.632468e-01
## 230 0.071772576 8.085624e-02 0.0899491327 0.099067459 1.082077e-01
## 231 1.650534515 1.657223e+00 1.6639177262 1.670631456 1.677361e+00
## 232 1.843060458 1.849224e+00 1.8553946853 1.861582189 1.867785e+00
## 233 0.354190106 3.585326e-01 0.3628794725 0.367238520 3.716080e-01
## 234 -0.127578729 -1.123923e-01 -0.0971904707 -0.081946106 -6.666517e-02
## 235 2.718621926 2.714096e+00 2.7095652803 2.705021986 2.700468e+00
## 236 0.354214524 3.590376e-01 0.3638655416 0.368707005 3.735601e-01
## 237 0.792863749 8.206239e-01 0.8484123098 0.876278419 9.042114e-01
## 238 0.994997255 1.009329e+00 1.0236757121 1.038062349 1.052484e+00
## 239 0.065271697 7.571544e-02 0.0861697921 0.096653387 1.071621e-01
## 240 -0.125497081 -9.804380e-02 -0.0705626555 -0.043004630 -1.538048e-02
## 241 1.440558770 1.460229e+00 1.4799188707 1.499663988 1.519456e+00
## 242 -1.023543383 -1.001223e+00 -0.9788806714 -0.956475483 -9.340165e-01
## 243 -0.793590417 -7.911980e-01 -0.7888032436 -0.786401743 -7.839945e-01
## 244 0.424669058 4.260768e-01 0.4274860073 0.428899138 4.303157e-01
## 245 0.305311463 3.103811e-01 0.3154558295 0.320544783 3.256459e-01
## 246 1.351374135 1.361225e+00 1.3710855610 1.380973859 1.390886e+00
## 247 1.001770338 1.016931e+00 1.0321072187 1.047325809 1.062581e+00
## 248 0.565996211 5.938502e-01 0.6217325358 0.649692837 6.777202e-01
## 249 -0.954939665 -9.518641e-01 -0.9487853285 -0.945697986 -9.426032e-01
## 250 0.712991429 7.154972e-01 0.7180055139 0.720520845 7.230422e-01
## 251 0.270990497 2.810013e-01 0.2910221754 0.301071129 3.111442e-01
## 252 0.625676476 6.342406e-01 0.6428133406 0.651410102 6.600275e-01
## 253 0.976314088 9.827382e-01 0.9891689073 0.995617568 1.002082e+00
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## 255 0.366648213 3.281902e-01 0.2896930721 0.251088285 2.123909e-01
## 256 1.549026788 1.561453e+00 1.5738913534 1.586364740 1.598868e+00

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## 257 0.294823465 2.917640e-01 0.2887014937 0.285630388 2.825519e-01
## 258 1.018980873 1.025517e+00 1.0320593704 1.038620239 1.045197e+00
## 259 -0.650393210 -6.259547e-01 -0.6014914000 -0.576959654 -5.523690e-01
## 260 1.307422565 1.310332e+00 1.3132451943 1.316166135 1.319094e+00
## 261 0.378368419 3.873624e-01 0.3963654414 0.405393704 4.144436e-01
## 262 -1.063482511 -1.102446e+00 -1.1414480696 -1.180559735 -1.219765e+00
## 263 1.345612696 1.325638e+00 1.3051470321 1.283232692 1.260726e+00
## 264 1.020897912 1.032565e+00 1.0442448927 1.055956979 1.067697e+00
## 265 2.549352546 2.551821e+00 2.5542924750 2.556770606 2.559255e+00
## 266 0.915338609 9.189199e-01 0.9225048860 0.926099871 9.297035e-01
## 267 -0.040683118 -2.750360e-02 -0.0143107046 -0.001080901 1.218064e-02
## 268 2.607679294 2.610488e+00 2.6132993985 2.616118741 2.618945e+00
## 269 1.642345121 1.645540e+00 1.6487371373 1.651943712 1.655158e+00
## 270 2.452225152 2.461490e+00 2.4707641149 2.480064243 2.489387e+00
## 271 1.532816337 1.542453e+00 1.5521002542 1.561774091 1.571471e+00
## 272 -0.698229938 -6.805904e-01 -0.6629330570 -0.645226266 -6.274770e-01
## 273 0.287875658 2.944252e-01 0.3009814358 0.307555990 3.141463e-01
## 274 0.917550826 9.393355e-01 0.9611423189 0.983010127 1.004930e+00
## 275 -0.933412584 -9.304297e-01 -0.9274438305 -0.924449587 -9.214482e-01
## 276 3.072913658 3.077604e+00 3.0822990363 3.087007240 3.091727e+00
## 277 -1.108064182 -1.112698e+00 -1.1173355390 -1.121986544 -1.126649e+00
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## 279 0.770012000 7.750005e-01 0.7799939803 0.785001472 7.900210e-01
## 280 0.941994138 9.699853e-01 0.9980047834 1.026102698 1.054268e+00
## 281 0.184116923 2.074374e-01 0.2307815979 0.254191078 2.776567e-01
## 282 -1.050773011 -1.035198e+00 -1.0196070691 -1.003972577 -9.883006e-01
## 283 2.487975782 2.497900e+00 2.5078339026 2.517795791 2.527782e+00
## 284 -0.517589636 -5.242023e-01 -0.5308216443 -0.537459522 -5.441133e-01
## 285 2.186484732 2.189601e+00 2.1927200511 2.195848018 2.198983e+00
## 286 0.206750859 2.409116e-01 0.2751070124 0.309398090 3.437714e-01
## 287 0.874449951 8.873357e-01 0.9002344693 0.913169353 9.261353e-01
## 288 0.753111742 7.547552e-01 0.7564002997 0.758050015 7.597037e-01
## 289 1.155145581 1.158075e+00 1.1610077858 1.163948579 1.166896e+00
## 290 2.004921172 2.025630e+00 2.0463598390 2.067147675 2.087985e+00
## 291 1.120217971 1.125076e+00 1.1299392079 1.134815897 1.139704e+00
## 292 -0.191755573 -1.704143e-01 -0.1490514007 -0.127628719 -1.061546e-01
## 293 1.933859627 1.934369e+00 1.9348797158 1.935391446 1.935904e+00
## 294 1.003362120 1.009923e+00 1.0164901446 1.023075859 1.029677e+00
## 295 -0.936689799 -9.301054e-01 -0.9235142908 -0.916904756 -9.102794e-01
## 296 0.627653219 6.350241e-01 0.6424024651 0.649801471 6.572182e-01
## 297 -0.929803966 -9.037766e-01 -0.8777227582 -0.851596058 -8.254067e-01
## 298 2.930781098 2.945773e+00 2.9607805043 2.975829800 2.990915e+00
## 299 0.693034061 7.193852e-01 0.7457630524 0.772214715 7.987298e-01
## 300 0.604096664 6.084034e-01 0.6127145259 0.617037703 6.213713e-01
## 301 -0.666787101 -6.591925e-01 -0.6515901553 -0.643966560 -6.363247e-01
## 302 0.317974036 3.223921e-01 0.3268145532 0.331249426 3.356949e-01
## 303 -0.191658209 -1.866513e-01 -0.1816393632 -0.176613378 -1.715753e-01
## 304 -0.701156832 -7.666687e-01 -0.8322471555 -0.898009025 -9.639287e-01
## 305 1.013541707 1.015250e+00 1.0169607144 1.018675870 1.020395e+00
## 306 1.804321161 1.815129e+00 1.8259483641 1.836797718 1.847673e+00
## 307 0.594550813 6.043514e-01 0.6141619667 0.623999963 6.338616e-01
## 308 1.259350028 1.270486e+00 1.2816336275 1.292812264 1.304018e+00
## 309 1.106898855 1.109479e+00 1.1120625105 1.114652874 1.117249e+00
## 310 0.443159276 4.562501e-01 0.4693541213 0.482494847 4.956671e-01

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## 311 2.349164973 2.354699e+00 2.3602394261 2.365794960 2.371364e+00
## 312 -0.521115273 -5.255509e-01 -0.5299910828 -0.534443661 -5.389069e-01
## 313 1.769745778 1.810152e+00 1.8505990404 1.891159332 1.931817e+00
## 314 2.204436495 2.207274e+00 2.2101146303 2.212963085 2.215818e+00
## 315 1.302657243 1.329422e+00 1.3562135149 1.383080185 1.410011e+00
## 316 0.768168947 7.725552e-01 0.7769459085 0.781348899 7.857625e-01
## 317 -0.066351467 -5.692190e-02 -0.0474827690 -0.038017228 -2.852898e-02
## 318 1.548389060 1.559863e+00 1.5713493063 1.582867385 1.594413e+00
## 319 0.391746733 3.972388e-01 0.4027364175 0.408249427 4.137757e-01
## 320 -0.468804103 -4.611958e-01 -0.4535797797 -0.445942450 -4.382868e-01
## 321 0.775257853 7.806314e-01 0.7860103820 0.791404422 7.968114e-01
## 322 1.175603280 1.127718e+00 1.0797847721 1.031717119 9.835341e-01
## 323 1.470234046 1.473856e+00 1.4774822491 1.481118333 1.484763e+00
## 324 0.044867874 5.366427e-02 0.0624695961 0.071299555 8.015070e-02
## 325 -0.249546732 -2.451556e-01 -0.2407600910 -0.236352245 -2.319338e-01
## 326 2.055144008 2.062151e+00 2.0691641115 2.076197340 2.083247e+00
## 327 3.149170074 3.173334e+00 3.1975234135 3.221780017 3.246095e+00
## 328 -0.752715319 -7.412035e-01 -0.7296800349 -0.718124313 -7.065409e-01
## 329 -0.673897852 -6.762573e-01 -0.6786191139 -0.680987549 -6.833617e-01
## 330 -0.226790269 -2.207712e-01 -0.2147461163 -0.208704130 -2.026476e-01
## 331 0.387466512 3.907937e-01 0.3941242532 0.397464130 4.008120e-01
## 332 -0.051374975 -1.012464e-01 -0.1511683766 -0.201230048 -2.514118e-01
## 333 1.381578543 1.389063e+00 1.3965541901 1.404066770 1.411597e+00
## 334 1.075699751 1.072543e+00 1.0693828475 1.066213953 1.063037e+00
## 335 -0.323541570 -3.125150e-01 -0.3014773185 -0.290408718 -2.793136e-01
## 336 1.301422421 1.305353e+00 1.3092876978 1.313233339 1.317188e+00
## 337 0.245875143 2.497491e-01 0.2536270497 0.257515818 2.614139e-01
## 338 -1.122351963 -1.114482e+00 -1.1066031737 -1.098702744 -1.090783e+00
## 339 1.506663555 1.512518e+00 1.5183784115 1.524255206 1.530146e+00
## 340 0.400886838 4.071527e-01 0.4134250138 0.419714829 4.260197e-01
## 341 -0.188657038 -1.722326e-01 -0.1557915203 -0.139304431 -1.227778e-01
## 342 -0.863973740 -8.671573e-01 -0.8703440047 -0.873539668 -8.767430e-01
## 343 0.913288786 9.161037e-01 0.9189214509 0.921747095 9.245795e-01
## 344 0.341257582 3.496688e-01 0.3580885908 0.366531919 3.749955e-01
## 345 0.931871649 9.351205e-01 0.9383727035 0.941633978 9.449031e-01
## 346 0.541105198 5.451993e-01 0.5492976067 0.553407354 5.575270e-01
## 347 -0.846310850 -8.169185e-01 -0.7874962191 -0.757991676 -7.284163e-01
## 348 2.355637324 2.360889e+00 2.3661459000 2.371417560 2.376702e+00
## 349 -0.214240673 -2.195873e-01 -0.2249393555 -0.230306383 -2.356863e-01
## 350 0.786920135 8.075555e-01 0.8282117430 0.848925807 8.696896e-01
## 351 0.661114910 6.568325e-01 0.6525457382 0.648246986 6.439379e-01
## 352 0.117412554 7.622841e-02 0.0350024556 -0.006338827 -4.777930e-02
## 353 0.502012594 5.206980e-01 0.5394022770 0.558158928 5.769606e-01
## 354 -0.243458213 -2.477956e-01 -0.2521374233 -0.256491376 -2.608558e-01
## 355 1.144304559 1.097668e+00 1.0509833708 1.004168506 9.572413e-01
## 356 0.436221651 4.384705e-01 0.4407215925 0.442979002 4.452418e-01
## 357 0.272465079 2.782524e-01 0.2840455638 0.289854950 2.956783e-01
## 358 -0.371548335 -3.681952e-01 -0.3648386257 -0.361472679 -3.580987e-01
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## 360 -1.069267793 -1.063809e+00 -1.0583448295 -1.052865291 -1.047373e+00
## 361 -0.477162030 -4.677173e-01 -0.4582629299 -0.448782137 -4.392786e-01
## 362 -0.081516114 -5.843614e-02 -0.0353327491 -0.012164720 1.105890e-02
## 363 -0.758794166 -7.875900e-01 -0.8182525344 -0.854065812 -8.865578e-01
## 364 1.867810360 1.813373e+00 1.7588809149 1.704236119 1.649460e+00

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## 365 -0.036651417 -3.742515e-02 -0.0381996636 -0.038976346 -3.975489e-02
## 366 -1.333467659 -1.331519e+00 -1.3295683930 -1.327612314 -1.325652e+00
## 367 -1.023662457 -1.021041e+00 -1.0184174954 -1.015786344 -1.013149e+00
## 368 0.332042871 3.155565e-01 0.2986914628 0.280781635 2.624328e-01
## 369 -0.869428417 -8.580441e-01 -0.8466481856 -0.835220411 -8.237652e-01
## 370 -0.137666891 -1.253655e-01 -0.1130517111 -0.100703430 -8.832552e-02
## 371 -1.983049113 -1.973002e+00 -1.9629439320 -1.952858105 -1.942748e+00
## 372 0.864652513 8.717388e-01 0.8788322649 0.885945582 8.930760e-01
## 373 -0.051177082 -3.464445e-02 -0.0180950471 -0.001499341 1.513618e-02
## 374 1.271880654 1.274682e+00 1.2774859856 1.280297918 1.283117e+00
## 375 1.056539902 1.061942e+00 1.0673502972 1.072773366 1.078209e+00
## 376 -1.756489995 -1.749498e+00 -1.7424989919 -1.735480361 -1.728445e+00
## 377 1.149350698 1.155785e+00 1.1622257696 1.168684589 1.175159e+00
## 378 2.519186018 2.521509e+00 2.5238335464 2.526164994 2.528502e+00
## 379 1.962786709 1.998426e+00 2.0341017298 2.069877133 2.105738e+00
## 380 -0.811123360 -8.243329e-01 -0.8375557822 -0.850815689 -8.641074e-01
## 381 -0.075933107 -7.368394e-02 -0.0714324909 -0.069174743 -6.691158e-02
## 382 0.907017525 9.142134e-01 0.9214165100 0.928639806 9.358804e-01
## 383 1.679315305 1.685358e+00 1.6914074002 1.697473437 1.703554e+00
## 384 -0.199458538 -1.918322e-01 -0.1841980575 -0.176542590 -1.688688e-01
## 385 -0.586433434 -5.821089e-01 -0.5777800383 -0.573439036 -5.690876e-01
## 386 0.269527315 2.772634e-01 0.2850072501 0.292772808 3.005570e-01
## 387 -0.544269050 -5.042767e-01 -0.4642437313 -0.424098781 -3.838575e-01
## 388 0.394291866 4.007798e-01 0.4072743498 0.413787053 4.203154e-01
## 389 1.473806399 1.503427e+00 1.5330772929 1.562810722 1.592615e+00
## 390 1.028225211 1.047453e+00 1.0667001807 1.086001269 1.105349e+00
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## 394 -0.175290307 -1.720633e-01 -0.1688329351 -0.165593575 -1.623464e-01
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## 396 2.613699666 2.630483e+00 2.6472826588 2.664129672 2.681017e+00
## 397 0.956288476 9.674530e-01 0.9786289322 0.989836092 1.001070e+00
## 398 0.784617291 8.136736e-01 0.8427594086 0.871926583 9.011637e-01
## 399 -0.930387885 -9.220711e-01 -0.9137457819 -0.905397219 -8.970286e-01
## 400 0.218084019 1.610346e-01 0.1020685738 0.037814551 -2.932624e-02
## 401 1.972421125 1.925180e+00 1.8772172558 1.827261866 1.777367e+00
## 402 2.088452586 2.047498e+00 2.0072251886 1.968835257 1.927869e+00
## 403 2.219820709 2.155640e+00 2.0873318207 2.007637885 1.921934e+00
## 404 1.678842386 1.646611e+00 1.6101838140 1.562179885 1.515085e+00
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## 408 -0.234368684 -2.562459e-01 -0.2787645264 -0.303052930 -3.273492e-01
## 409 1.689260559 1.632861e+00 1.5755931332 1.515929948 1.457024e+00
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## 412 1.867853589 1.814633e+00 1.7604384608 1.703558806 1.649726e+00
## 413 0.913933314 8.813936e-01 0.8480745064 0.812605202 7.771080e-01
## 414 -0.002817343 -3.703285e-02 -0.0724787206 -0.111319261 -1.505841e-01
## 415 1.135738431 1.090897e+00 1.0459678448 1.000798767 9.567372e-01
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## 419 0.382908132 3.386296e-01 0.2920034171 0.238899650 1.853256e-01
## 420 0.585494004 5.396761e-01 0.4873717214 0.417170657 3.478967e-01
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## 424 0.778559216 7.461005e-01 0.7131867985 0.679017686 6.468646e-01
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## 433 1.035032990 9.821817e-01 0.9305049484 0.882068760 8.340519e-01
## 434 0.562042124 5.295319e-01 0.4949694528 0.454744482 4.184451e-01
## 435 0.296477009 2.805046e-01 0.2648453761 0.250050379 2.361861e-01
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## 437 2.180583589 2.129298e+00 2.0781617703 2.027440518 1.979304e+00
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## 440 -0.160543063 -2.256603e-01 -0.2888258443 -0.346606354 -4.006214e-01
## 441 -0.184516331 -1.949316e-01 -0.2063208081 -0.220396982 -2.343188e-01
## 442 -0.071707958 -9.626398e-02 -0.1211413704 -0.146905438 -1.751517e-01
## 443 1.123603005 1.085147e+00 1.0444675058 0.997654626 9.491336e-01
## 444 2.416748569 2.344611e+00 2.2741978108 2.208542216 2.138703e+00
## 445 1.138009177 1.080188e+00 1.0211148360 0.958587311 8.958879e-01
## 446 2.447814733 2.405724e+00 2.3624852391 2.316080761 2.271059e+00
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## 449 1.335071772 1.298860e+00 1.2602872273 1.215202186 1.168664e+00
## 450 0.924219558 8.726649e-01 0.8156488777 0.743564509 6.741925e-01
## 451 0.334897553 2.966159e-01 0.2609763183 0.232626540 2.031946e-01
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## 453 1.611079562 1.567988e+00 1.5267284484 1.490523360 1.449850e+00
## 454 -0.967401386 -1.007584e+00 -1.0507566369 -1.102180359 -1.154760e+00
## 455 0.506227082 4.617508e-01 0.4179474044 0.376000333 3.345818e-01
## 456 2.664464856 2.633774e+00 2.6020479770 2.567462807 2.532004e+00
## 457 0.744953408 6.779914e-01 0.6121807690 0.549546610 4.853508e-01
## 458 -0.402176456 -4.551781e-01 -0.5109694444 -0.574458182 -6.383344e-01
## 459 0.458651239 4.251368e-01 0.3926237050 0.362873222 3.336405e-01
## 460 1.490593797 1.447454e+00 1.4053639136 1.366170317 1.326209e+00
## 461 0.490520348 4.312275e-01 0.3672651599 0.290419007 2.156384e-01
## 462 0.284151369 2.088036e-01 0.1373660137 0.076717094 1.321179e-02
## 463 1.279039022 1.217947e+00 1.1576843885 1.099707798 1.037041e+00
## 464 0.996558169 9.496975e-01 0.9013738550 0.849013930 8.043318e-01
## 465 3.068461488 2.958788e+00 2.8501799429 2.744510081 2.638143e+00
## 466 1.257152602 1.244624e+00 1.2324092473 1.221058265 1.210514e+00
## 467 -1.275797090 -1.311357e+00 -1.3473371684 -1.384475273 -1.419713e+00
## 468 0.293832397 2.615587e-01 0.2295337540 0.198195009 1.652230e-01
## 469 0.797394892 7.317886e-01 0.6632693708 0.586712874 5.094632e-01
## 470 -1.107586121 -1.140418e+00 -1.1739508491 -1.209419118 -1.245456e+00
## 471 -1.028034064 -1.119870e+00 -1.2066184771 -1.279332817 -1.354463e+00
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## 473 3.166393686 3.084702e+00 3.0011490980 2.912459502 2.818560e+00
## 474 0.094991496 7.281225e-02 0.0532281493 0.040804318 2.758938e-02
## 475 0.192513246 1.436936e-01 0.0959568102 0.051207433 8.179963e-05
## 476 1.029296845 9.971232e-01 0.9668074411 0.941618071 9.150445e-01
## 477 0.832294181 8.006605e-01 0.7712871675 0.748150057 7.269910e-01
## 478 0.996156360 9.811361e-01 0.9658274702 0.949723430 9.338836e-01
## 479 -0.224721809 -2.854685e-01 -0.3486081830 -0.418350094 -4.888363e-01
## 480 -0.505776353 -5.499390e-01 -0.5940460941 -0.637999678 -6.761697e-01
## 481 2.592220802 2.545891e+00 2.4981740806 2.446631375 2.394824e+00
## 482 0.269049309 2.363750e-01 0.2036215187 0.170649354 1.384633e-01
## 483 0.770192168 7.384756e-01 0.7047234621 0.665354923 6.271193e-01
## 484 1.715260671 1.647907e+00 1.5811064409 1.515834848 1.452888e+00
## 485 2.428317903 2.429690e+00 2.4310643946 2.432442181 2.433823e+00
## 486 1.476573286 1.420966e+00 1.3683186650 1.323834892 1.281458e+00
## 487 2.793764800 2.750340e+00 2.7061738721 2.659960820 2.616234e+00
## 488 1.037026791 9.730901e-01 0.9050892546 0.825874723 7.542078e-01
## 489 0.863923657 8.429179e-01 0.8211964780 0.797500747 7.739099e-01
## 490 2.559176610 2.498367e+00 2.4286317635 2.334270579 2.245013e+00
## 491 0.847418781 7.971815e-01 0.7439963743 0.682677705 6.245389e-01
## 492 0.814855672 7.591551e-01 0.7027897145 0.644590298 5.931610e-01
## 493 -0.186075485 -2.242645e-01 -0.2651509176 -0.313479663 -3.636599e-01
## 494 2.252123937 2.197083e+00 2.1422668204 2.088071062 2.031177e+00
## 495 0.610157725 5.359657e-01 0.4523271866 0.342624824 2.506727e-01
## 496 0.148350462 5.832335e-02 -0.0292435881 -0.110022660 -1.929853e-01
## 497 0.802148919 7.554631e-01 0.7042753545 0.6406666295 5.735397e-01
## 498 -0.503991904 -5.701534e-01 -0.6347911959 -0.695224737 -7.579630e-01
## 499 0.445824909 3.700316e-01 0.3021345303 0.256023917 2.091606e-01
## 500 0.811337588 7.627423e-01 0.7121492528 0.656044297 5.983487e-01
## 501 0.333391207 3.028563e-01 0.2712905287 0.236880421 2.012702e-01
## 502 1.221139055 1.168232e+00 1.1136955668 1.054665187 9.994359e-01
## 503 0.878722193 8.011645e-01 0.7216843554 0.636900000 5.563094e-01
## 504 0.460049747 4.068867e-01 0.3589296574 0.325336231 2.911964e-01
## 505 0.810628963 7.217706e-01 0.6316266598 0.537935502 4.372402e-01
## 506 1.508174971 1.432282e+00 1.3507363102 1.253592042 1.164999e+00
## 507 1.049848836 9.779582e-01 0.9088282671 0.847315314 7.872872e-01
## 508 0.661992215 6.384887e-01 0.6148320153 0.590752514 5.677881e-01
## 509 0.403610248 3.134198e-01 0.2154697721 0.096110152 -1.763437e-02
## 510 1.131801071 1.105261e+00 1.0804232367 1.060280976 1.041107e+00
## 511 -0.159784948 -2.186573e-01 -0.2823108649 -0.359156044 -4.322122e-01
## 512 1.084871660 9.885000e-01 0.8932959092 0.801313519 7.049513e-01
## 513 0.128210108 1.607232e-02 -0.1121898511 -0.284940886 -4.413086e-01
## 514 0.409525562 3.399465e-01 0.2715337678 0.206339333 1.446479e-01
## 515 -0.228769408 -2.597996e-01 -0.2915388465 -0.325234335 -3.577595e-01
## 516 -0.348545998 -4.399811e-01 -0.5403856080 -0.665537353 -7.779757e-01
## 517 -0.035907232 -8.102124e-02 -0.1277222805 -0.178802109 -2.289508e-01
## 518 0.926465427 8.179540e-01 0.7147051906 0.625976737 5.334693e-01
## 519 -0.171306004 -1.920789e-01 -0.2131905730 -0.235237289 -2.566881e-01
## 520 1.478180756 1.459316e+00 1.4396139683 1.417604566 1.396710e+00
## 521 -0.971151089 -1.064402e+00 -1.1634200350 -1.278349231 -1.377299e+00
## 522 0.703168592 6.204793e-01 0.5372721028 0.452636098 3.741460e-01
## 523 2.133276774 2.082607e+00 2.0264880252 1.955336789 1.887284e+00
## 524 1.349287885 1.333106e+00 1.3170936683 1.301550341 1.286689e+00
## 525 0.266466285 2.233046e-01 0.1822715624 0.147111516 1.119048e-01
## 526 -0.121153416 -1.583578e-01 -0.1951184142 -0.230654433 -2.696133e-01

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## 527 0.381329479 3.120095e-01 0.2415492021 0.167942668 8.866945e-02
## 528 0.422347872 4.006621e-01 0.3766374462 0.346159872 3.154182e-01
## 529 1.952707683 1.851640e+00 1.7419802780 1.608612198 1.482178e+00
## 530 1.393364712 1.368637e+00 1.3442265616 1.320693993 1.297471e+00
## 531 0.123862155 7.938905e-02 0.0338759540 -0.014506613 -6.730471e-02
## 532 0.424008883 3.708296e-01 0.3153058775 0.253313925 1.892971e-01
## 533 -0.314127555 -3.484779e-01 -0.3893418978 -0.448177598 -5.039971e-01
## 534 2.841262095 2.820177e+00 2.7957166076 2.761945134 2.728921e+00
## 535 0.598176464 5.670702e-01 0.5371565751 0.510533476 4.836744e-01
## 536 0.255536088 2.329404e-01 0.2038654443 0.156913198 1.143678e-01
## 537 0.952364890 9.237760e-01 0.8951627555 0.866482231 8.367473e-01
## 538 0.627834011 6.039177e-01 0.5784979833 0.548930353 5.198837e-01
## 539 2.065728635 2.004845e+00 1.9390400398 1.859656816 1.784195e+00
## 540 0.662433389 6.299697e-01 0.5951003598 0.553593825 5.102879e-01
## 541 0.894558716 8.444806e-01 0.7911813533 0.728994511 6.687194e-01
## 542 -1.192886114 -1.226369e+00 -1.2633698838 -1.310074236 -1.353846e+00
## 543 0.358866384 3.039822e-01 0.2474856218 0.186540260 1.230769e-01
## 544 0.283712795 2.362812e-01 0.1888911719 0.141616030 9.465393e-02
## 545 1.869051341 1.812283e+00 1.7535695622 1.689492639 1.625668e+00
## 546 0.624115289 6.253837e-01 0.6266534133 0.627926671 6.292030e-01
## 547 0.869991730 7.872859e-01 0.6947389031 0.575039432 4.674427e-01
## 548 1.963558730 1.945273e+00 1.9263615946 1.905723308 1.885144e+00
## 549 0.755295155 6.773773e-01 0.5907877065 0.480271850 3.691635e-01
## 550 1.026898388 9.711560e-01 0.9188759274 0.876148862 8.320698e-01
## 551 1.196174486 1.139339e+00 1.0780811384 1.004624253 9.323344e-01
## 552 2.268723308 2.192905e+00 2.1210100259 2.059940562 1.995235e+00
## 553 -0.417347540 -4.597406e-01 -0.5078231898 -0.571603940 -6.332327e-01
## 554 -0.024297030 -1.131882e-01 -0.2017636563 -0.289467795 -3.824357e-01
## 555 1.602770637 1.586320e+00 1.5693127760 1.550768193 1.532629e+00
## 556 2.262523292 2.225239e+00 2.1869220265 2.145757008 2.104374e+00
## 557 0.856346769 7.955829e-01 0.7344422224 0.672262170 6.123143e-01
## 558 0.877630819 8.537979e-01 0.8289653857 0.801375145 7.740497e-01
## 559 0.959923655 9.147781e-01 0.8759599025 0.854599680 8.337981e-01
## 560 -1.709936184 -1.778030e+00 -1.8629627199 -1.994356645 -2.107399e+00
## 561 0.125396085 7.081160e-02 0.0164510594 -0.037291615 -8.882530e-02
## 562 0.071578204 7.120107e-03 -0.0542229595 -0.106971337 -1.602576e-01
## 563 1.785765464 1.745085e+00 1.7028318324 1.656242076 1.611959e+00
## 564 1.427199642 1.365406e+00 1.2978311208 1.214308265 1.137415e+00
## 565 0.871134249 8.047405e-01 0.7367611616 0.664406704 5.953095e-01
## 566 0.671712268 6.090863e-01 0.5488733990 0.495318709 4.370062e-01
## 567 0.840672164 7.521486e-01 0.6646105126 0.579791516 5.068947e-01
## 568 2.538710599 2.521189e+00 2.4968624782 2.453762110 2.414211e+00
## 569 1.307252707 1.231694e+00 1.1480713111 1.042201754 9.518463e-01
## 570 1.701363374 1.664993e+00 1.6272890176 1.585903610 1.544624e+00
## 571 -0.410044693 -4.516136e-01 -0.4972778378 -0.554242120 -6.138767e-01
## 572 2.105884902 2.043390e+00 1.9822289608 1.924748831 1.868103e+00
## 573 2.169839204 2.119272e+00 2.0681067672 2.015288260 1.959949e+00
## 574 -0.864854787 -9.185579e-01 -0.9709869292 -1.019900795 -1.067864e+00
## 575 1.767152211 1.702432e+00 1.6321933857 1.546726697 1.469106e+00
## 576 1.867863421 1.822088e+00 1.7737642855 1.718410887 1.660707e+00
## 577 0.107217621 4.607603e-02 -0.0153291968 -0.077461833 -1.394900e-01
## 578 -1.104540470 -1.140050e+00 -1.1813509502 -1.238630597 -1.294454e+00
## 579 2.117219030 2.068310e+00 2.0206632494 1.976500462 1.935122e+00
## 580 0.732956703 6.729410e-01 0.6137337001 0.556756673 5.017940e-01

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## 581 0.761009706 7.007142e-01 0.6352323771 0.555441020 4.745943e-01
## 582 1.088881847 1.006476e+00 0.9308526538 0.873943465 8.135194e-01
## 583 1.009753867 9.724315e-01 0.9341569007 0.893255229 8.541325e-01
## 584 0.449022377 4.094443e-01 0.3660549707 0.312149878 2.611942e-01
## 585 0.994456659 9.429585e-01 0.8888493338 0.827536294 7.674372e-01
## 586 1.866154497 1.789248e+00 1.7144355201 1.645400320 1.574497e+00
## 587 1.029975618 9.977181e-01 0.9646582962 0.929384669 8.939804e-01
## 588 2.442638893 2.422509e+00 2.4019972712 2.380433561 2.359317e+00
## 589 1.505235631 1.430972e+00 1.3534620113 1.266994082 1.179604e+00
## 590 1.522758471 1.486725e+00 1.4451621914 1.388344555 1.333827e+00
## 591 1.444693667 1.407701e+00 1.3686011133 1.323688202 1.280797e+00
## 592 1.366232529 1.331881e+00 1.2941153793 1.246928300 1.199030e+00
## 593 -0.056994350 -1.179657e-01 -0.1836466515 -0.262321664 -3.366645e-01
## 594 -1.384712006 -1.462113e+00 -1.5367863480 -1.603935098 -1.677282e+00
## 595 -0.619619102 -6.441568e-01 -0.6701805399 -0.700304285 -7.303998e-01
## 596 -0.706186646 -7.270173e-01 -0.7492950148 -0.775565251 -8.028950e-01
## 597 2.445183600 2.391607e+00 2.3333077057 2.261976872 2.193980e+00
## 598 -0.007524495 -4.790541e-02 -0.0914468967 -0.143708744 -1.940863e-01
## 599 0.493707164 4.626925e-01 0.4293565996 0.389616014 3.501438e-01
## 600 -0.861611141 -1.028407e+00 -1.2036767430 -1.402326002 -1.592340e+00
## 601 0.354105806 1.793127e-01 0.0049498300 -0.168226201 -3.408468e-01
## 602 -0.188147655 -3.273632e-01 -0.4909612033 -0.721833217 -9.513116e-01
## 603 1.036778199 8.211077e-01 0.6007155636 0.367295677 1.525274e-01
## 604 0.094037001 -8.420496e-02 -0.2703183925 -0.478150012 -6.755405e-01
## 605 2.193919526 1.961691e+00 1.7198909541 1.451684881 1.193509e+00
## 606 0.397975589 2.230648e-01 0.0413422490 -0.159174878 -3.577711e-01
## 607 0.852130782 6.228531e-01 0.3943491494 0.167980031 -6.427500e-02
## 608 -1.951259244 -2.154979e+00 -2.3527355508 -2.534038682 -2.729663e+00
## 609 0.156708464 -4.179675e-02 -0.2428233787 -0.450806837 -6.517885e-01
## 610 1.294948404 1.123763e+00 0.9487801311 0.763321836 5.808988e-01
## 611 0.597054920 3.701397e-01 0.1579637110 -0.013545302 -1.895914e-01
## 612 0.650182164 5.243145e-01 0.3810851355 0.189953333 7.532233e-04
## 613 0.741166399 4.993991e-01 0.2627843030 0.040386047 -1.718902e-01
## 614 1.027315369 8.530012e-01 0.6799919327 0.510583136 3.384570e-01
## 615 1.261478594 1.046321e+00 0.8193948219 0.559998836 3.239593e-01
## 616 0.508782590 3.218113e-01 0.1423380631 -0.016447232 -1.837245e-01
## 617 0.830896098 6.346078e-01 0.4426167370 0.262482351 6.292427e-02
## 618 2.160669457 2.002218e+00 1.8208498911 1.576252026 1.353735e+00
## 619 0.878319180 6.911575e-01 0.5119525776 0.354701092 1.887005e-01
## 620 0.857043072 6.934950e-01 0.5322114284 0.377175673 2.134277e-01
## 621 0.763066030 6.031240e-01 0.4405291109 0.270614399 9.799305e-02
## 622 1.606654338 1.384217e+00 1.1455645291 0.862173563 5.860501e-01
## 623 1.570764082 1.428238e+00 1.2586044022 1.014175215 7.827819e-01
## 624 1.280682504 1.127116e+00 0.9652703574 0.780582547 6.004671e-01
## 625 1.205784394 9.844016e-01 0.7704715873 0.577104790 3.781802e-01
## 626 0.058703856 -1.011162e-01 -0.2566958137 -0.400575492 -5.477382e-01
## 627 -0.046808617 -2.051945e-01 -0.3632503993 -0.520395639 -6.843642e-01
## 628 1.513727898 1.349275e+00 1.1806127299 1.000335154 8.250645e-01
## 629 -0.127125438 -2.697536e-01 -0.4257834039 -0.618789771 -8.044989e-01
## 630 2.591667968 2.407484e+00 2.2330502723 2.085518800 1.938178e+00
## 631 -1.173776409 -1.318982e+00 -1.4648913175 -1.612741375 -1.769157e+00
## 632 0.121003141 -7.237159e-02 -0.2721901088 -0.489787683 -6.910228e-01
## 633 -0.303134718 -5.114148e-01 -0.7225202984 -0.941421666 -1.172579e+00
## 634 -1.423967619 -1.614184e+00 -1.8092996077 -2.017929526 -2.224884e+00

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## 635 3.088197198 2.947160e+00 2.8034028533 2.652142282 2.492160e+00
## 636 1.187695764 1.0111117e+00 0.8288472467 0.630877349 4.346477e-01
## 637 -1.261840001 -1.406356e+00 -1.5692957485 -1.783070855 -1.996927e+00
## 638 -0.233314752 -4.359343e-01 -0.6409371862 -0.852516118 -1.047553e+00
## 639 0.179550930 -2.966127e-03 -0.1901596338 -0.390255951 -5.829765e-01
## 640 -0.916513206 -1.081573e+00 -1.2512652649 -1.433737061 -1.619060e+00
## 641 0.118547534 -6.929489e-02 -0.2583394214 -0.450700719 -6.379036e-01
## 642 1.002209277 8.090389e-01 0.6170756504 0.428442674 2.322321e-01
## 643 1.546092694 1.393818e+00 1.2359660501 1.062724889 8.837878e-01
## 644 -0.380311601 -5.757440e-01 -0.7683330280 -0.953077188 -1.140630e+00
## 645 0.511975316 2.504199e-01 -0.0088451133 -0.261790517 -4.937809e-01
## 646 0.351496593 1.315903e-01 -0.0923008897 -0.327186527 -5.536818e-01
## 647 0.358718224 1.625542e-01 -0.0359354196 -0.240841825 -4.418033e-01
## 648 0.059065765 -1.140868e-01 -0.2962999641 -0.503512059 -7.040326e-01
## 649 1.264343238 1.081491e+00 0.8977368214 0.711496987 5.214273e-01
## 650 0.364705898 1.905784e-01 -0.0013066755 -0.242186801 -4.691799e-01
## 651 1.483630600 1.296621e+00 1.1087418167 0.918465867 7.305050e-01
## 652 1.081257028 9.115786e-01 0.7414706522 0.570177342 4.064735e-01
## 653 0.158985605 -1.145879e-02 -0.1808656942 -0.347410069 -5.098732e-01
## 654 -0.994850698 -1.163407e+00 -1.3337412608 -1.508983296 -1.683890e+00
## 655 0.319745825 6.369046e-02 -0.1802561384 -0.390793420 -5.969083e-01
## 656 0.202235081 1.937075e-03 -0.2006882959 -0.409735109 -6.241350e-01
## 657 1.011089057 8.465394e-01 0.6678393190 0.450096635 2.455994e-01
## 658 -0.102806394 -3.352609e-01 -0.5698733568 -0.810439579 -1.054106e+00
## 659 0.642937605 4.630137e-01 0.2813093879 0.094692930 -9.914870e-02
## 660 0.818610495 6.252931e-01 0.4353423928 0.254680788 7.138621e-02
## 661 1.713866783 1.544837e+00 1.3607711491 1.135218231 9.288851e-01
## 662 -0.416937842 -5.812556e-01 -0.7636351316 -0.995849206 -1.223633e+00
## 663 1.199281770 1.046090e+00 0.8854542459 0.704281554 5.284844e-01
## 664 1.205306121 1.036440e+00 0.8580565443 0.653413969 4.553522e-01
## 665 0.276713276 1.269347e-01 -0.0238222082 -0.177278661 -3.335731e-01
## 666 -1.014198147 -1.210802e+00 -1.3978263035 -1.558416626 -1.718649e+00
## 667 0.587181388 4.351724e-01 0.2757866721 0.096047840 -7.784392e-02
## 668 0.141081745 -7.581327e-02 -0.2939026030 -0.515287203 -7.212686e-01
## 669 -0.280813503 -4.565628e-01 -0.6399203875 -0.844270132 -1.039246e+00
## 670 0.284653304 1.113626e-01 -0.0652047709 -0.250813026 -4.335691e-01
## 671 1.425439171 1.212475e+00 1.0004563518 0.791045733 5.933081e-01
## 672 1.440774269 1.276430e+00 1.1117215808 0.946011334 7.806224e-01
## 673 0.861920303 7.099724e-01 0.5375674887 0.308719741 9.447328e-02
## 674 -0.563707866 -8.017745e-01 -1.0439946839 -1.297674776 -1.529087e+00
## 675 -0.153345840 -3.352865e-01 -0.5328936084 -0.773726272 -1.010190e+00
## 676 -0.814481658 -9.881875e-01 -1.1704219359 -1.376187662 -1.574723e+00
## 677 -0.192767140 -3.436648e-01 -0.4975052628 -0.659465456 -8.207949e-01
## 678 0.884281011 6.755392e-01 0.4428825298 0.144242472 -1.442311e-01
## 679 -1.176910977 -1.368719e+00 -1.5583397057 -1.741927000 -1.929275e+00
## 680 -0.852606646 -1.017031e+00 -1.1797645474 -1.337835366 -1.500062e+00
## 681 0.845985404 5.962153e-01 0.3557508951 0.140962053 -5.612149e-02
## 682 0.462880370 2.684899e-01 0.0506875020 -0.231711044 -4.890231e-01
## 683 -0.756047419 -9.635904e-01 -1.1761753775 -1.402671933 -1.617288e+00
## 684 0.149592696 -3.242802e-02 -0.2200667997 -0.423206404 -6.204810e-01
## 685 0.643485890 4.943979e-01 0.3334590785 0.139822437 -4.971981e-02
## 686 0.927358206 7.180779e-01 0.5047154567 0.280090215 6.942808e-02
## 687 -0.374608147 -5.627406e-01 -0.7649014647 -1.005767871 -1.234981e+00
## 688 0.928243346 7.771090e-01 0.6151015447 0.423093864 2.373788e-01

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## 689  0.319013236  1.402617e-01 -0.0375279474 -0.212663672 -3.872305e-01
## 690 -0.758021019 -9.335944e-01 -1.1062493859 -1.270852000 -1.436187e+00
## 691 -0.113091992 -3.067847e-01 -0.4957557080 -0.671699152 -8.461126e-01
## 692  1.405084494  1.227795e+00  1.0397153339  0.821863631  6.178657e-01
## 693 -0.057854247 -2.510889e-01 -0.4411750312 -0.622574037 -7.953863e-01
## 694  0.776835764  5.796481e-01  0.3713290388  0.132297245 -9.673773e-02
## 695 -0.023113751 -1.728679e-01 -0.3309207649 -0.511870604 -6.910768e-01
## 696 -0.211371398 -3.923409e-01 -0.5769470053 -0.771587178 -9.681657e-01
## 697  0.040200830 -1.984788e-01 -0.4459859897 -0.717849358 -9.777572e-01
## 698  0.614818350  4.240080e-01  0.2095004588 -0.070390217 -3.280476e-01
## 699  0.456188034  2.350975e-01 -0.0002345387 -0.274860618 -5.515828e-01
## 700 -0.002696650 -2.175462e-01 -0.4280184299 -0.626413257 -8.314342e-01
## 701  1.111230449  8.404371e-01  0.5654840755  0.279053950  9.734749e-03
## 702  1.695078125  1.512441e+00  1.3199683220  1.100355154  8.866216e-01
## 703 -1.476179312 -1.718534e+00 -1.9620613360 -2.208825968 -2.453387e+00
## 704  1.903505289  1.718047e+00  1.5361930525  1.364282577  1.188957e+00
## 705  1.632213942  1.473799e+00  1.3070218274  1.117170180  9.390178e-01
## 706 -0.551118830 -7.452353e-01 -0.9404181208 -1.138543131 -1.339453e+00
## 707  1.554767767  1.387459e+00  1.2182939853  1.044007126  8.744748e-01
## 708  3.407524355  3.221202e+00  3.0202059500  2.778726719  2.547300e+00
## 709 -0.858867884 -1.065780e+00 -1.2786687635 -1.508047656 -1.732070e+00
## 710 -1.115536784 -1.293160e+00 -1.4848756646 -1.715474845 -1.941439e+00
## 711 -0.144360405 -3.663136e-01 -0.5873311861 -0.805767402 -1.010701e+00
## 712 -0.228274818 -3.872316e-01 -0.5741267833 -0.838106828 -1.083724e+00
## 713  0.523305939  3.281661e-01  0.1340249439 -0.057360448 -2.469195e-01
## 714  1.022518562  7.386116e-01  0.4388821589  0.095496599 -2.086412e-01
## 715  0.807389964  6.335243e-01  0.4606640686  0.290577668  1.220541e-01
## 716  1.476709545  1.293691e+00  1.1129915052  0.938688973  7.676220e-01
## 717 -0.405135088 -5.888556e-01 -0.7902350251 -1.040336972 -1.281057e+00
## 718 -0.859356403 -1.033664e+00 -1.2044752211 -1.365641596 -1.530087e+00
## 719 -0.255602516 -4.272109e-01 -0.6024863183 -0.787879608 -9.679980e-01
## 720  0.502820401  3.368767e-01  0.1657582752 -0.019637604 -2.062590e-01
## 721 -1.277222452 -1.470595e+00 -1.6643970556 -1.859387133 -2.057133e+00
## 722 -0.939690980 -1.164421e+00 -1.3892617034 -1.614409660 -1.834689e+00
## 723 -0.599830792 -7.795315e-01 -0.9767557190 -1.222329156 -1.459040e+00
## 724 -0.709542155 -9.055615e-01 -1.1190896560 -1.380926462 -1.629948e+00
## 725  0.188981237 -1.887837e-02 -0.2224148896 -0.414023538 -5.968585e-01
## 726  1.133055712  9.230202e-01  0.7183514220  0.528489740  3.226726e-01
## 727  0.502336813  2.865995e-01  0.0747094522 -0.126565687 -3.236766e-01
## 728 -1.342564819 -1.510978e+00 -1.6827031700 -1.863568303 -2.047968e+00
## 729  0.102809802 -3.650589e-02 -0.1785011881 -0.327889793 -4.852796e-01
## 730 -0.250448482 -4.312041e-01 -0.6131478065 -0.798369748 -9.804640e-01
## 731 -0.466195452 -6.121349e-01 -0.7683132345 -0.952741707 -1.135223e+00
## 732 -0.044968453 -2.928228e-01 -0.5565515361 -0.864079453 -1.149204e+00
## 733  1.853516311  1.676710e+00  1.4925954271  1.288315185  1.089750e+00
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## 735  0.782685092  6.318197e-01  0.4671808313  0.264539817  8.037788e-02
## 736  0.845713136  6.292814e-01  0.4244631362  0.251687401  7.628493e-02
## 737  1.401409911  1.225753e+00  1.0452788203  0.851514771  6.628683e-01
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## 741  0.700989995  4.965031e-01  0.2914668776  0.084915126 -1.110821e-01
## 742  0.643756969  3.877953e-01  0.1452336794 -0.060356042 -2.649727e-01

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## 743 1.582027318 1.371066e+00 1.1554472956 0.926978933 7.099584e-01
## 744 1.872125630 1.596133e+00 1.3338135006 1.109220923 8.931769e-01
## 745 1.919461998 1.711651e+00 1.5032999554 1.293458573 1.085066e+00
## 746 0.094201952 -9.386875e-02 -0.2824190405 -0.472292554 -6.607149e-01
## 747 0.891471251 6.959847e-01 0.4936192904 0.272274078 5.751214e-02
## 748 2.090767557 1.845482e+00 1.5952655854 1.331445532 1.074231e+00
## 749 0.391803618 2.294733e-01 0.0650352659 -0.105217932 -2.815055e-01
## 750 0.456979464 2.821252e-01 0.1045717655 -0.080428820 -2.593929e-01
## 751 -0.530658653 -7.452568e-01 -0.9658378675 -1.202926272 -1.437517e+00
## 752 0.201749501 4.792285e-02 -0.1307889573 -0.378161481 -6.102014e-01
## 753 1.013472444 8.808042e-01 0.7225952800 0.493916863 2.759896e-01
## 754 -0.519017191 -6.906996e-01 -0.8634928792 -1.039350929 -1.217216e+00
## 755 0.446281525 2.893263e-01 0.1328466242 -0.022320656 -1.936939e-01
## 756 1.714027685 1.525882e+00 1.3305924769 1.115593199 8.909301e-01
## 757 1.410863577 1.132736e+00 0.8628644181 0.615773410 3.632142e-01
## 758 -0.262038592 -4.898028e-01 -0.7239123221 -0.975529401 -1.215987e+00
## 759 -0.412264863 -6.825133e-01 -0.9392041687 -1.158488483 -1.374225e+00
## 760 0.209524017 1.286517e-03 -0.2267270752 -0.509304949 -7.723599e-01
## 761 -0.740053799 -9.505190e-01 -1.1545395399 -1.340778461 -1.525635e+00
## 762 0.494826885 3.281568e-01 0.1504092241 -0.057902364 -2.710276e-01
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## 766 1.674160880 1.446036e+00 1.2235935589 1.016827324 8.006063e-01
## 767 0.408969972 2.502253e-01 0.0754994003 -0.143320286 -3.489581e-01
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## 769 0.429987977 2.788953e-01 0.1253885718 -0.034778854 -2.002318e-01
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## 771 1.938877923 1.755559e+00 1.5680889774 1.369166827 1.157522e+00
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## 773 2.398200460 2.202185e+00 2.0023539816 1.791996790 1.586158e+00
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##           120          121          122          123          124
## 0   -0.933556666 -0.958126138 -0.9833271675 -1.009735597 -1.038624660
## 1   -1.441031512 -1.461321412 -1.4821328634 -1.503941407 -1.527798501
## 2   -2.417943958 -2.464694559 -2.5041016783 -2.536980577 -2.556447087
## 3   -2.128354326 -2.152117299 -2.1764910982 -2.202032665 -2.229973436
## 4   -0.311228979 -0.430644598 -0.6780767326 -0.851396936 -0.872452365
## 5   -0.651223850 -0.660101326 -0.6692069970 -0.664627922 -0.631933201
## 6   -0.634537036 -0.714686242 -0.8093273957 -0.866690216 -0.847463788
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## 9   -0.560852925 -0.571728180 -0.5828829829 -0.594572221 -0.607359469
## 10  -1.123074827 -1.157613634 -1.1930402621 -1.230164206 -1.270775326
## 11  0.443506132 0.436181145 0.4300426591 0.424618769 0.420663035
## 12  -2.579673593 -2.595518764 -2.6117712346 -2.628802374 -2.647433305
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## 20  -0.596168834 -0.624006574 -0.6547782676 -0.678629416 -0.688262134

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## 23 -0.906408044 -0.908649132 -0.9109478268 -0.913356654 -0.915991750
## 24 -0.503178518 -0.521425842 -0.5401422130 -0.521241194 -0.425054327
## 25 -2.251073832 -2.264199781 -2.2776631324 -2.291771523 -2.307205163
## 26 -0.497026278 -0.516040682 -0.5355438520 -0.555981433 -0.578338785
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## 28  0.105394318  0.068074269  0.0297949070 -0.010318447 -0.054199783
## 29 -1.978805524 -1.979913641 -1.9810502411 -1.982241297 -1.983544233
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## 31 -0.401401090 -0.433041790 -0.4654958147 -0.499504735 -0.536708228
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## 38 -1.002808928 -1.009814027 -1.0169991913 -1.024528602 -1.032765276
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## 42 -3.900324416 -3.914196888 -3.9284259524 -3.943336742 -3.959648151
## 43  0.344109441  0.345671896  0.3472745136  0.348953914  0.350791066
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## 45 -0.087272214 -0.130328806 -0.1777818269 -0.202356050 -0.179925221
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## 78 -1.014315161 -1.049197766 -1.0849770284 -1.122470501 -1.163485863
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## 80 -1.408002017 -1.392334143 -1.3762635262 -1.359422954 -1.341000491
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## 82 -1.987385743 -1.991118961 -1.9949481421 -1.998960782 -2.003350342
## 83 -2.686440002 -2.695328870 -2.7044462257 -2.714000401 -2.724452032
## 84 0.339478399 0.360541338 0.3821457010 0.404785145 0.429551187
## 85 -0.935618169 -0.992172561 -1.0558657539 -1.105086195 -1.124572013
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## 92 0.022439315 -0.006601879 -0.0363895774 -0.039807885 0.010950366
## 93 -2.035052393 -2.061730581 -2.0890945314 -2.117769509 -2.149138024
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## 132 0.022840716 -0.004812760 -0.0331770690 -0.038648178 0.002915353
## 133 -0.989063882 -1.000187692 -1.0115974398 -1.023553837 -1.036633339
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## 145 -3.124894229 -3.136459817 -3.1465785052 -3.156400821 -3.165614233
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## 147 0.460775744 0.449444388 0.4378217596 0.425642282 0.412318746
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## 150 -2.922704121 -2.975210976 -3.0558191648 -3.091111382 -3.033300828
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## 377  1.181679374  1.188257960  1.1950056485  1.202076624  1.209811800
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## 385 -0.564705181 -0.560283683  -0.5557485299 -0.550996095 -0.545797247
## 386  0.308396675  0.316306230  0.3244190996  0.332920663  0.342220807
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## 394 -0.159076163 -0.155776734  -0.1523924945 -0.148846113 -0.144966608
## 395 -0.072013533 -0.097077160  -0.1241266760 -0.142294538 -0.142214824
## 396  2.698024918  2.715184326  2.7327848169  2.751228560  2.771404786
## 397  1.012384269  1.023799244  1.0355076405  1.047776995  1.061198851
## 398  0.930609306  0.960317329  0.9907889965  1.022720584  1.057651614

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## 400 -0.105064092 -0.175823819 -0.2320991659 -0.291457817 -0.357151192
## 401 1.727653299 1.677894916 1.6280070573 1.554420723 1.432145289
## 402 1.879230763 1.830710030 1.7825315125 1.740212345 1.709931354
## 403 1.818330279 1.709953652 1.5876887743 1.523110472 1.577050651
## 404 1.470695179 1.430847785 1.4042158100 1.388258056 1.394230750
## 405 -0.798348116 -0.855610306 -0.9248732917 -0.961962735 -0.932950846
## 406 0.896869953 0.837523861 0.7929310728 0.744753976 0.689212830
## 407 -0.653656779 -0.673494931 -0.6933541145 -0.713880055 -0.735775866
## 408 -0.351669016 -0.375395933 -0.3973978188 -0.414693244 -0.422319132
## 409 1.400375135 1.344225734 1.2895307189 1.238944868 1.196801396
## 410 -0.352667866 -0.401249167 -0.4406012863 -0.481377672 -0.525080247
## 411 1.159191576 1.083481741 1.0012742439 0.950784256 0.965458667
## 412 1.604964947 1.563711155 1.5326609230 1.493469297 1.437550977
## 413 0.741527926 0.705875865 0.6700144684 0.618372434 0.534308691
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## 419 0.130350809 0.077930593 0.0329430698 -0.005143923 -0.029053605
## 420 0.281383543 0.211790082 0.1332340254 0.089215370 0.116154652
## 421 -0.145089140 -0.200872638 -0.2612763744 -0.309744183 -0.333689335
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## 429 0.900350502 0.831226801 0.7525138717 0.703666647 0.716179245
## 430 0.705983259 0.677254062 0.6545342460 0.640109950 0.642729003
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## 450 0.612898186 0.549622127 0.4805799965 0.433606901 0.431975180
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## 452 -0.624070849 -0.651777925 -0.6724701103 -0.689874391 -0.700523591

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## 453 1.395870208 1.346063945 1.3084012906 1.264183777 1.206499144
## 454 -1.210780649 -1.264709459 -1.3125510050 -1.350500646 -1.368127124
## 455 0.294737501 0.256930147 0.2250496190 0.196825609 0.176114003
## 456 2.493945345 2.459895209 2.4375094097 2.411355337 2.377459256
## 457 0.416504361 0.346300353 0.2721464229 0.229863066 0.253058582
## 458 -0.703364508 -0.763331774 -0.8085681273 -0.855218219 -0.904772871
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## 464 0.782514655 0.760502566 0.7379231589 0.714260433 0.688372002
## 465 2.529699161 2.416162529 2.2878076515 2.218711035 2.271361966
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## 476 0.884348559 0.852381228 0.8167145962 0.768354075 0.693913648
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## 481 2.342229215 2.292303820 2.2501457658 2.215025916 2.194366229
## 482 0.108618213 0.079881441 0.0543693452 0.030881074 0.011550799
## 483 0.592257389 0.560816904 0.5393312983 0.524746445 0.524339358
## 484 1.396863311 1.344061441 1.3006360443 1.264534338 1.243479332
## 485 2.435214209 2.436617543 2.4380569502 2.439565320 2.441215377
## 486 1.245354006 1.209570426 1.1747181957 1.145691863 1.128634979
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## 488 0.705018387 0.654635247 0.6007788563 0.559192150 0.542813809
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## 490 2.170953418 2.104745762 2.0613835321 2.015943786 1.966235731
## 491 0.575870095 0.530362211 0.4940514088 0.427707245 0.299658804
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## 495 0.211582371 0.171985656 0.1309155391 0.087414161 0.038917696
## 496 -0.282450563 -0.365722226 -0.4309728149 -0.502971643 -0.588834894
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## 504 0.255429343 0.219768555 0.1844169804 0.154423233 0.135437272
## 505 0.315686061 0.188120923 0.0430662276 -0.036346705 0.019102973
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## 516 -0.852552590 -0.918484117 -0.9592611595 -1.001991860 -1.048736399
## 517 -0.276326281 -0.320259013 -0.3541745886 -0.382605871 -0.399769539
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## 569 0.907693189 0.862749928 0.8155076019 0.764837994 0.707126951
## 570 1.503656974 1.462487233 1.4207262159 1.397285858 1.411485743
## 571 -0.681469983 -0.742215374 -0.7830360887 -0.828947508 -0.885317905
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## 579 1.902035288 1.870261428 1.8423073164 1.812617380 1.779361148
## 580 0.452830087 0.404466561 0.3578498277 0.325667998 0.323143031
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## 583 0.820307438 0.791372762 0.7766670763 0.773329594 0.793348364
## 584 0.219022379 0.182100305 0.1604530644 0.147168499 0.151065255
## 585 0.710953271 0.656919420 0.6100142888 0.574870019 0.563888728
## 586 1.498031988 1.426671741 1.3701653646 1.310385330 1.243879483
## 587 0.858187096 0.825918393 0.8039049049 0.788655001 0.787301046
## 588 2.339530080 2.318717460 2.2949192840 2.279669713 2.281983460
## 589 1.089469878 1.008236183 0.9529005212 0.909183088 0.889335590
## 590 1.286159289 1.242573260 1.2108633133 1.158618146 1.064182865
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## 592 1.149014899 1.105583144 1.0813070835 1.016011491 0.866440268
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## 52 -0.854490417 -0.8863657402 -0.921729801 53
## 53 -0.176061327 -0.0638332685 0.148122586 54
## 54 -1.863310668 -1.9263601424 -1.996310351 55

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## 364 1.282803887 1.2022496103 1.112878707 565
## 365 -0.044966288 -0.0461112294 -0.047381485 566
## 366 -1.291481203 -1.3001422200 -1.454826690 567
## 367 -0.995494348 -0.9916156530 -0.987312437 568
## 368 0.290351218 0.4315724147 0.588250202 569
## 369 -0.853552309 -1.0073624133 -1.178006958 570
## 370 -0.005470868 0.0127322721 0.032927737 571
## 371 -1.875074076 -1.8602061191 -1.843710872 572
## 372 1.031439055 1.1036082286 0.915828298 573
## 373 0.126490257 0.1509547117 0.178096789 574
## 374 1.319517597 1.3053445192 1.140878296 575
## 375 1.114597220 1.1225916017 1.131460965 576
## 376 -1.620109565 -1.5947935860 -1.833271996 577
## 377 1.302700654 1.3686021239 1.189900296 578
## 378 2.544145609 2.5475824975 2.551395551 579

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## 385 -0.510913425 -0.4689572547 -0.457663629  586
## 386  0.310068664  0.2532414469  0.190194518  587
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## 417  1.747663748  1.7433251866  1.645523031  818
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## 420  0.146400406  0.1795599673  0.216348826  821
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## 432 -0.711593175 -0.6196970024 -0.517742839  833

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## 439 1.357495018 1.4068985376 1.447830497 840
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## 452 -0.704481323 -0.8102074882 -1.265337120 853
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## 454 -1.313476151 -1.1851586599 -0.944463127 855
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## 464 0.700406802 0.7428947638 0.817179307 865
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## 466 1.208129344 1.1720229753 0.935758500 867
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## 490 2.088651578 2.3131478180 2.562215061 891
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## 495 0.067266319 0.1573582792 0.311996994 896
## 496 -0.685236828 -0.7909259039 -0.908182598 897
## 497 0.218468719 0.1514410162 0.077077164 898
## 498 -1.132928090 -1.2108127783 -1.297221908 899
## 499 -0.049350737 -0.0844020603 -0.123289733 900
## 500 0.433446926 0.4721044750 0.514993073 901
## 501 0.049842860 0.0507253792 0.051704490 902
## 502 0.826151433 0.8088698465 0.789696799 903
## 503 0.366279521 0.4121285177 0.462995664 904
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## 526 -0.419204363 -0.4219342949 -0.424963016 927
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## 652 -0.073201887 -0.0048203379 0.071045538 1253
## 653 -1.112796591 -1.1703763444 -1.234258174 1254
## 654 -2.261257855 -2.2722316065 -2.284406429 1255
## 655 -1.210699132 -1.1916162624 -1.170444782 1256
## 656 -1.585198763 -1.7153111287 -1.859664229 1257
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## 668 -1.528103861 -1.5436505645 -1.560898847 1269
## 669 -1.719098852 -1.6692341866 -1.613911857 1270
## 670 -0.898732225 -0.9468629872 -1.424543136 1271
## 671 -0.427405736 -0.6421209048 -0.880336544 1272
## 672 0.129568101 0.0747705246 0.013975381 1273
## 673 -0.529921092 -0.5452674573 -0.625371491 1274
## 674 -2.271212003 -2.2527648809 -2.232298730 1275
## 675 -1.728776105 -1.7255300886 -1.721928798 1276
## 676 -2.156627583 -2.2644644600 -2.706182765 1277
## 677 -1.365857679 -1.3172341437 -1.619473947 1278
## 678 -1.006118350 -1.0775680491 -1.156837883 1279
## 679 -2.470562015 -2.3731339836 -2.265042502 1280
## 680 -1.973982855 -1.9104723481 -2.027724009 1281
## 681 -0.492312041 -0.4242734105 -0.302277365 1282
## 682 -1.190244766 -1.2394679394 -1.294078565 1283
## 683 -2.155495799 -1.9810246471 -1.656204111 1284
## 684 -1.137196327 -1.0714694382 -0.998548773 1285
## 685 -0.617134171 -0.7037431841 -1.082207707 1286
## 686 -0.663466790 -0.7663993410 -0.880597809 1287
## 687 -1.946954916 -2.0138249153 -2.088013803 1288
## 688 -0.396526365 -0.4142196726 -0.612137343 1289
## 689 -0.944792059 -0.9843097649 -1.256544752 1290
## 690 -2.050218140 -2.0592501887 -2.069270791 1291
## 691 -1.392336356 -1.3347534739 -1.270868174 1292
## 692 -0.059085170 -0.0943483787 -0.133471129 1293
## 693 -1.333705733 -1.1850686470 -0.910863785 1294
## 694 -0.642798505 -0.4979284115 -0.337202357 1295
## 695 -1.581731725 -1.7423191849 -1.920482864 1296
## 696 -1.714835098 -1.7840251817 -1.860788086 1297
## 697 -1.711965302 -1.4887515539 -1.241107170 1298
## 698 -0.921815555 -0.9726211926 -1.180725689 1299
## 699 -1.476802007 -1.5426433206 -1.615690934 1300
## 700 -1.581076876 -1.5755662275 -1.569452441 1301
## 701 -0.638661203 -0.3666299529 -0.064825015 1302
## 702 0.020565657 -0.0970952341 -0.227634053 1303

```

```

## 703 -3.282859529 -3.1174728950 -2.933984774 1304
## 704  0.435701787  0.4310829281  0.310851836 1305
## 705  0.391231895  0.3393946140  0.050931637 1306
## 706 -1.909287268 -1.6720430582 -1.408832586 1307
## 707  0.392695806  0.3673247500  0.160070767 1308
## 708  1.824613993  1.8024224484  1.777802050 1309
## 709 -2.405832285 -2.2965607636 -2.175329527 1310
## 710 -2.871183086 -3.0110784016 -3.166285191 1311
## 711 -1.649613746 -1.5877939609 -1.519208031 1312
## 712 -1.636903722 -1.4295374522 -1.199475046 1313
## 713 -0.836772079 -0.6248166013 -0.247729235 1314
## 714 -1.002262495 -0.9552095560 -0.903006696 1315
## 715 -0.538712396 -0.6105016879 -0.690148283 1316
## 716  0.304429327  0.3584622459  0.306200812 1317
## 717 -1.883302632 -1.7170056627 -1.532507572 1318
## 718 -2.013804043 -1.8716618070 -1.519527568 1319
## 719 -1.569144185 -1.4913813423 -1.247486474 1320
## 720 -0.747872888 -0.7851676219 -0.973919250 1321
## 721 -3.036003391 -3.1966576555 -3.374895450 1322
## 722 -2.465276588 -2.2515711588 -1.848746403 1323
## 723 -2.076225825 -2.0760306517 -2.075814117 1324
## 724 -2.238324427 -2.1036482299 -1.954231790 1325
## 725 -1.295991075 -1.3693363310 -1.450709190 1326
## 726 -0.604515857 -0.7004595936 -0.806904326 1327
## 727 -0.935448667 -0.9097176633 -0.881170414 1328
## 728 -2.763438310 -2.7950365862 -2.830093279 1329
## 729 -0.961843193 -0.8313000887 -0.588525241 1330
## 730 -1.542464141 -1.4779531001 -1.406381357 1331
## 731 -1.785011638 -1.7994224464 -1.907751574 1332
## 732 -1.756379107 -1.5649929318 -1.352659633 1333
## 733  0.493968998  0.4379633287  0.070566208 1334
## 734  0.696227215  0.6475084228  0.262414607 1335
## 735 -0.356107191 -0.4795593423 -1.176924190 1336
## 736 -0.393908442 -0.3553136080 -0.767243382 1337
## 737  0.164836784  0.2262364727  0.380790328 1338
## 738 -1.875861727 -1.8300610175 -1.779247443 1339
## 739 -1.213590365 -1.1468169060 -1.072735124 1340
## 740 -1.822143533 -1.5545876100 -1.257747823 1341
## 741 -0.633656572 -0.5630219467 -0.626620390 1342
## 742 -0.896457806 -0.8861841311 -0.874786008 1343
## 743  0.048011521  0.0222870876 -0.006252872 1344
## 744  0.360107736  0.6365048482  1.168357825 1345
## 745  0.477298357  0.5822722420  0.698735467 1346
## 746 -1.287651403 -1.3206232183 -1.357203783 1347
## 747 -0.504199926 -0.4438500094 -0.376894824 1348
## 748  0.416898798  0.6452272461  0.898546131 1349
## 749 -0.885904222 -0.8941036524 -1.029779318 1350
## 750 -0.821897848 -0.7889508442 -0.793993286 1351
## 751 -2.197153755 -2.0589051362 -1.905525274 1352
## 752 -1.199855412 -1.0477213009 -0.775503464 1353
## 753 -0.368015462 -0.3863100074 -0.529801945 1354
## 754 -1.869049352 -1.8281851814 -1.774143158 1355
## 755 -0.858624679 -0.8149562751 -0.766508385 1356
## 756  0.083387464  0.1580772132  0.240941718 1357

```

```

## 757 -0.357698034 -0.1630295528 0.216394527 1358
## 758 -1.997047885 -2.0129405163 -2.030572588 1359
## 759 -2.155854152 -2.0456553533 -1.923395350 1360
## 760 -1.385576192 -1.1360132765 -0.646929407 1361
## 761 -2.204154303 -2.1658934962 -2.123445062 1362
## 762 -0.869261455 -0.8844344056 -0.941976671 1363
## 763 -1.081032492 -1.1539818479 -1.234915475 1364
## 764 -2.537848370 -2.4437843886 -2.339425150 1365
## 765 -0.433389060 -0.2803044358 -0.110464775 1366
## 766 0.155072003 0.3358546272 0.536423821 1367
## 767 -1.024215728 -1.0750711876 -1.301038847 1368
## 768 -0.517276696 -0.5635811599 -0.913316025 1369
## 769 -0.847427049 -0.8472334172 -1.086656077 1370
## 770 -0.569593448 -0.4210713849 -0.256293654 1371
## 771 0.425578356 0.4186383812 0.410938829 1372
## 772 -0.936956912 -0.7936163706 -0.634587278 1373
## 773 0.932271887 1.0408576460 1.437732947 1374
## 774 0.517593552 0.4528424727 0.145206409 1375
## [ reached 'max' / getOption("max.print") -- omitted 225 rows ]

# Create long version of aligned data subset
hct_train_align_sub_long <-
  hct_train_align_sub |>
  pivot_longer(cols = -id, names_to = "frequency", values_to = "aligned") |>
  mutate(frequency = as.integer(frequency) + 1)

# Create long version of warping function subset
hct_train_warp_fun_sub_long <-
  hct_train_warp_fun_sub |>
  pivot_longer(cols = -id, names_to = "frequency", values_to = "warping") |>
  mutate(frequency = as.integer(frequency) + 1)

# Join aligned and warping functions with training data
hct_train_sub$frequency = unlist(hct_train_sub$frequency)
hct_train_sub_full <-
  hct_train_sub |>
  left_join(hct_train_align_sub_long, by = c("id", "frequency")) |>
  left_join(hct_train_warp_fun_sub_long, by = c("id", "frequency")) |>
  mutate(
    material =
      fct_relevel(material, "explosive", "h2o", "hp10", "hp50", "hp100")
  )

# Compute the number of observations per material subset
n_obs_sub <-
  hct_train_sub |>
  select(material, id) |>
  distinct() |>
  count(material)

# Print a message if the subsets have different sizes
if (sum(n_obs_sub$n[1] != n_obs_sub$n) != 0) {
  print("Error: H-CT subsets have different sizes")
}

```

```

# Compute cross-sectional means from aligned functions
hct_train_sub_means <-
  hct_train_sub_full |>
  group_by(material, frequency_norm) |>
  summarise(mean = mean(aligned), .groups = "drop") |>
  mutate(material = fct_relevel(
    factor(material),
    "explosive", "h2o", "hp10", "hp50", "hp100"
  )) |>
  mutate(
    material = fct_recode(
      material,
      "Explosive" = "explosive",
      "H2O" = "h2o",
      "H2O2 (10%)" = "hp10",
      "H2O2 (50%)" = "hp50",
      "H2O2 (100%)" = "hp100"
    )
  )
}

# Function for computing warping functions mean using fdasrvf
get_warp_mean <- function(m, df) {

  # Subset for specified material and put in matrix
  warp_mat <-
    df |>
    filter(material == m) |>
    select(id, frequency, warping) |>
    pivot_wider(id_cols = id,
                names_from = frequency,
                values_from = warping) |>
    select(-id) |>
    as.matrix() |>
    t()

  # Apply sqrt mean function
  res = fdasrvf:::SqrtMean(gam = warp_mat)

  # Extract warping function mean and put in df
  warp_mean = data.frame(var = res$gam_mu)
  colnames(warp_mean) = m

  # Return warping mean df
  warp_mean
}

# Compute the warping functions means from the subset for each material
hct_warp_means_sub <-
  map_dfc(
    .x = c("h2o", "explosive", "hp100", "hp50", "hp10"),
    .f = get_warp_mean,
    df = hct_train_sub_full

```

```

) |>
mutate(frequency_norm = sort(unique(hct_train_sub_full$frequency_norm))) |>
pivot_longer(
  cols = -frequency_norm,
  names_to = "material",
  values_to = "warp_mean"
) |>
mutate(material = fct_relevel(
  factor(material),
  "explosive", "h2o", "hp10", "hp50", "hp100"
)) |>
mutate(
  material = fct_recode(
    material,
    "Explosive" = "explosive",
    "H2O" = "h2o",
    "H2O2 (10%)" = "hp10",
    "H2O2 (50%)" = "hp50",
    "H2O2 (100%)" = "hp100"
  )
)

# Compute the proportion of variation
hct_prop_var_jfpca <-
  data.frame(latent = hct_train_jfpca_latent) |>
  mutate(index = 1:n(),
         prop_var = (latent^2) / (sum(latent^2)))
hct_prop_var_vfpca <-
  data.frame(latent = hct_train_vfpca_latent) |>
  mutate(index = 1:n(),
         prop_var = (latent^2) / (sum(latent^2)))

# Function for identifying a certain number of top jjPCs
get_top_vars <- function(pfi, nvars) {
  data.frame(pfi_mean = pfi$importances_mean) |>
  mutate(x = 1:n()) |>
  arrange(desc(pfi_mean)) |>
  slice(1:nvars) |>
  pull(x)
}

# Specify number of top fPCs to consider
hct_n_top_pcs = 5

# Identify the top fPCs
hct_top_jfpcas = get_top_vars(pfi = hct_jfpca_nn_pfi, nvars = hct_n_top_pcs)
hct_top_vfpcas = get_top_vars(pfi = hct_vfpca_nn_pfi, nvars = hct_n_top_pcs)

# Vector of smoothing parameter values
sparams = c("01", "05", "10", "15", "20", "25")

# Function for loading predictions and accuracies
load_results <- function(train_test, result, stage, sparam) {
  fp = paste0(

```

```

    fp_res_hct,
    "hct-",
    train_test,
    "-",
    result,
    "-",
    stage,
    "-sparam",
    sparam,
    ".pkl"
)
py_load_object(fp)
}

# Load predictions and accuracies
hct_pred_and_metrics_train <-
  set_names(c("jfPCA", "vfPCA", "hfPCA")) |>
  map(.f = function(x) set_names(sparams) |>
  map(
    .f = load_results,
    stage = x,
    train_test = "train",
    result = "pred-and-metrics")
  )

hct_pred_and_metrics_test <-
  set_names(c("jfPCA", "vfPCA", "hfPCA")) |>
  map(.f = function(x) set_names(sparams) |>
  map(
    .f = load_results,
    stage = x,
    train_test = "test",
    result = "pred-and-metrics")
  )

hct_pred_and_metrics_CS_pre_smooth <-
  set_names(c("train", "test")) |>
  map(
    .f = load_results,
    stage = "cs-pre-smooth",
    result = "pred-and-metrics",
    sparam = "00"
  )

hct_pred_and_metrics_CS_pre_align <-
  set_names(c("train", "test")) |>
  map(.f = function(x) set_names(sparams) |>
  map(
    .f = load_results,
    stage = "cs-pre-align",
    train_test = x,
    result = "pred-and-metrics")
  )

```

```

hct_pred_and_metrics_cs_post_align <-
  set_names(c("train", "test")) |>
  map(.f = function(x) set_names(sparams) |>
    map(
      .f = load_results,
      stage = "cs-post-align",
      train_test = x,
      result = "pred-and-metrics")
  )

# Prepare metrics for plotting
hct_pred_and_metrics_train_df <-
  map_df(
    .x = hct_pred_and_metrics_train,
    .f = function(x)
      map_df(x, "acc"),
      .id = "pca"
  ) |>
  mutate(data = "training")

hct_pred_and_metrics_test_df <-
  map_df(
    .x = hct_pred_and_metrics_test,
    .f = function(x)
      map_df(x, "acc"),
      .id = "pca"
  ) |>
  mutate(data = "testing")

hct_pred_and_metrics_cs_pre_smooth_df <-
  map_df(
    .x = hct_pred_and_metrics_cs_pre_smooth,
    .f = "acc"
  ) |>
  mutate(pca = "CS pre-smooth") |>
  pivot_longer(cols = -pca, names_to = "data", values_to = "00") |>
  mutate(data = ifelse(data == "train", "training", "testing"))

hct_pred_and_metrics_cs_pre_align_df <-
  map_df(
    .x = hct_pred_and_metrics_cs_pre_align,
    .f = function(x)
      map_df(x, "acc"),
      .id = "data"
  ) |>
  mutate(data = ifelse(data == "train", "training", "testing")) |>
  mutate(pca = "CS pre-align")

hct_pred_and_metrics_cs_post_align_df <-
  map_df(
    .x = hct_pred_and_metrics_cs_post_align,
    .f = function(x)
      map_df(x, "acc"),

```

```

    .id = "data"
) |>
mutate(data = ifelse(data == "train", "training", "testing")) |>
mutate(pca = "CS post-align")
```

```

hct_acc_res <-
bind_rows(
  hct_pred_and_metrics_train_df,
  hct_pred_and_metrics_test_df,
  hct_pred_and_metrics_cs_pre_smooth_df,
  hct_pred_and_metrics_cs_pre_align_df,
  hct_pred_and_metrics_cs_post_align_df
) |>
pivot_longer(
  cols = -c(data, pca),
  names_to = "sparam",
  values_to = "acc"
) |>
mutate(sparam = as.numeric(sparam)) |>
mutate(pca =forcats::fct_relevel(
  pca,
  c(
    "CS pre-smooth",
    "CS pre-align",
    "CS post-align",
    "jfPCA",
    "vfPCA",
    "hfPCA"
  )
))
```

```

hct_acc_best <-
hct_acc_res |>
group_by(pca, data) |>
filter(acc == max(acc, na.rm = TRUE))
```

```

# Specify the figure font size
f4_fs = 19
```

```

# Plot subset of signatures
hct_train_sub_full |>
  rename("Observed \nFunctions" = "value",
         "Smoothed and \nAligned Functions" = "aligned",
         "Warping \nFunctions" = "warping") |>
pivot_longer(
  cols = c(
    "Observed \nFunctions",
    "Smoothed and \nAligned Functions",
    "Warping \nFunctions"
  ),
  names_to = "situation"
) |>
mutate(situation = fct_relevel(
  situation,
```

```

    "Observed \nFunctions",
    "Smoothed and \nAligned Functions",
    "Warping \nFunctions"
)) |>
mutate(
  material = fct_recode(
    material,
    "Explosive" = "explosive",
    "H2O" = "h2o",
    "H2O2 (10%)" = "hp10",
    "H2O2 (50%)" = "hp50",
    "H2O2 (100%)" = "hp100"
  )
) |>
ggplot(aes(
  x = frequency_norm,
  y = value,
  group = id,
  color = material
)) +
  geom_line(alpha = 0.1, size = 0.1) +
  facet_grid(situation ~ material, scales = "free_y") +
  theme_bw(base_family = ff, base_size = f4_fs) +
  theme(
    legend.key.width = unit(1, "cm"),
    strip.background = element_rect(color = "white", fill = "white"),
    aspect.ratio = 0.75,
    legend.position = "bottom",
    axis.title = element_text(size = f4_fs),
    axis.text = element_text(size = f4_fs*0.7),
    title = element_text(size = f4_fs),
    strip.text = element_text(size = f4_fs*0.8)
  ) +
  scale_color_manual(values = col_5groups) +
  guides(color = guide_legend(
    override.aes = list(linewidth = 1.25, alpha = 1, size = 0.5)
  )) +
  labs(color = "Material", y = "Intensity", x = "Normalized Frequency")

# Specify the figure font size
f5_fs = 22

plot_hct_train_means <-
  hct_train_sub_means |>
  ggplot(aes(x = frequency_norm, y = mean, color = material)) +
  geom_line(size = 1.25) +
  theme_bw(base_family = ff, base_size = f5_fs) +
  scale_color_manual(values = col_5groups) +
  theme(
    aspect.ratio = 0.45,
    legend.position = "none",
    axis.title.y = element_blank(),
    axis.title = element_text(size = f5_fs),
    axis.text = element_text(size = f5_fs),

```

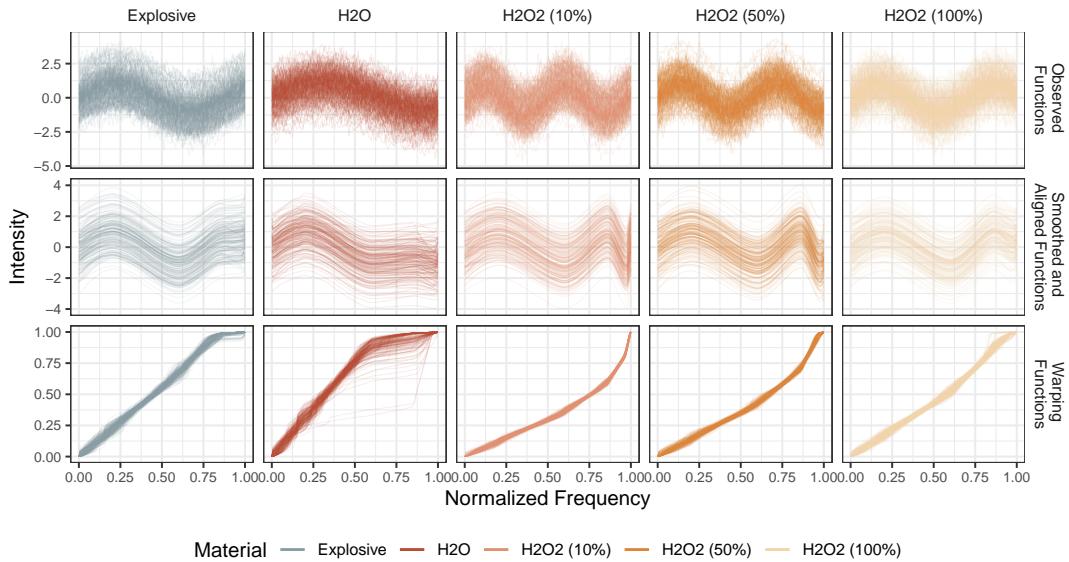


Figure 4: *H-CT Data Material Signatures*. Observed (top row), smoothed and aligned (middle row), and warping functions (bottom row) of a subset of 1,000 H-CT signatures for each material.

```

    title = element_text(size = f5_fs * 0.9),
    strip.text = element_text(size = f5_fs)
) +
labs(
  x = "Normalized Frequency",
  title = "Aligned Cross-Sectional Means",
  color = "Material"
)

plot_hct_train_warp_means <-
  hct_warp_means_sub |>
  ggplot(aes(x = frequency_norm, y = warp_mean, color = material)) +
  geom_line(size = 1.25) +
  theme_bw(base_family = ff, base_size = f5_fs) +
  theme(
    aspect.ratio = 1,
    axis.title.y = element_blank(),
    axis.title.x = element_text(size = f5_fs),
    axis.text = element_text(size = f5_fs),
    title = element_text(size = f5_fs * 0.9),
    strip.text = element_text(size = f5_fs),
    legend.text = element_text(size = f5_fs),
    legend.title = element_text(size = f5_fs),
    legend.position = "bottom",
    legend.key.width = unit(2, 'cm')
) +
  scale_color_manual(values = col_5groups) +
  guides(color = guide_legend(
    override.aes = list(linewidth = 1.25, alpha = 1, size = 0.5)
)) +
  labs(
    title = "Warping Functions"
)

```

```

    x = "Normalized Frequency",
    title = "Warping Karcher Means",
    color = "Material"
  )

# Extract the legend
f6_legend <-
  get_plot_component(
    plot_hct_train_warp_means,
    'guide-box-bottom',
    return_all = TRUE
  )
plot_hct_train_warp_means <-
  plot_hct_train_warp_means +
  theme(legend.position = "none")

# Join the plots
plot_grid(
  plot_grid(
    plot_hct_train_means,
    plot_hct_train_warp_means,
    rel_widths = c(0.6, 0.4),
    label_fontfamily = ff
  ),
  f6_legend,
  ncol = 1,
  rel_heights = c(0.95, 0.05)
)

```

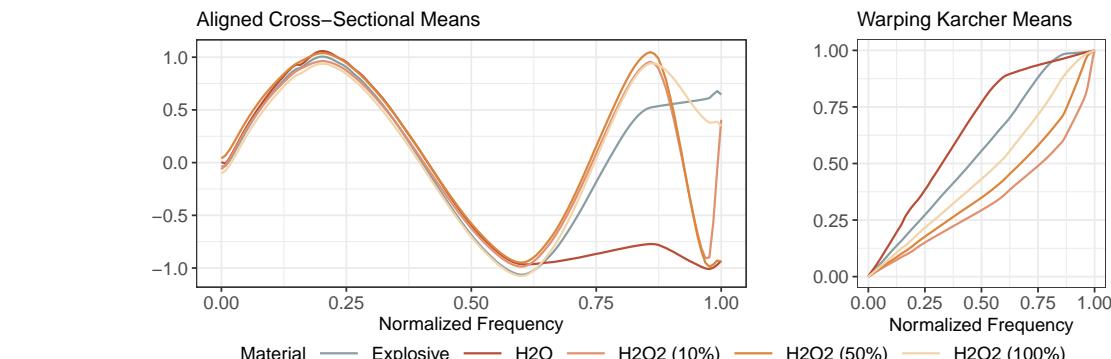


Figure 5: *H-CT Training Data Material Means.* For each material, cross-sectional functional means of the aligned functions (left) and Karcher means of the warping functions (right).

```

# Specify the figure size (for determining font size)
f6_fs = 22

hct_acc_best |>
  ggplot(aes(x = pca, y = acc, color = data, shape = data, fill = data)) +
  geom_point(size = 4.5) +
  theme_bw(base_family = ff, base_size = f6_fs) +
  theme(axis.text.x = element_text(size = f6_fs*0.7)) +
  scale_color_manual(values = c(

```

```

wes_palette(name = "Royal1", n = 30, type = "continuous")[10],
wes_palette(name = "Royal1", n = 30, type = "continuous")[1]
)) +
scale_shape_manual(values = c(19,17)) +
labs(
  x = "Method",
  y = "Accuracy",
  color = "Dataset",
  shape = "Dataset",
  fill = "Dataset"
) +
ylim(0.5,1)

```

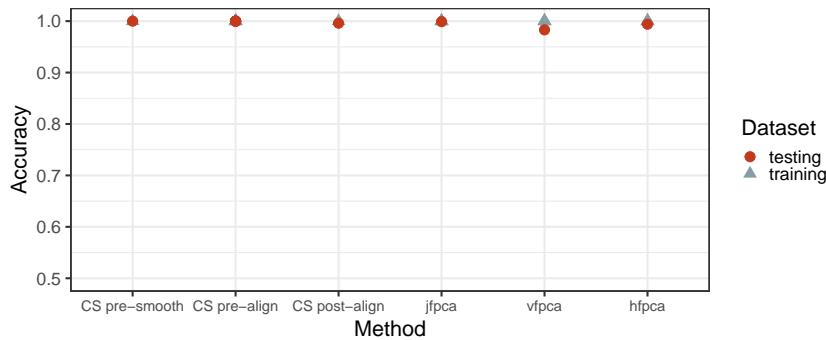


Figure 6: *H-CT Data Accuracies*. Best model accuracies from neural networks applied using the VEESA pipeline and the cross-sectional (CS) approach.

```

# Specify the figure font size
f7_fs = 20

# Prepare proportion of variability and PFI for vfPCA for plotting
hct_pv_pfi <-
  hct_prop_var_vfpca |>
  mutate(
    fPCA = "Vertical fPCA",
    pfi = hct_vfpca_nn_pfi$importances_mean
  ) |>
  select(-latent) |>
  rename(fpc = index) |>
  pivot_longer(cols = -c(fpc, fPCA), names_to = "variable") |>
  mutate(
    variable = fct_relevel(variable, "prop_var", "pfi"),
    variable = fct_recode(
      variable,
      "Proportion of \nVariation" = "prop_var",
      "PFI" = "pfi"
    )
  )

# Prepare labels
hct_pfi_labels <-
  hct_pv_pfi |>
  filter(variable == "PFI") |>

```

```

filter(fpc %in% hct_top_vfpcs) |>
  mutate(label_x = fpc, label_y = value, label_id = 1:n()) |>
  mutate(label_y = ifelse(label_id == 1, label_y + 0.03, label_y)) |>
  mutate(label_x = ifelse(label_id == 2, label_x - 3, label_x)) |>
  mutate(label_y = ifelse(label_id == 3, label_y + 0.03, label_y)) |>
  mutate(label_x = ifelse(label_id == 4, label_x + 2.5, label_x)) |>
  mutate(label_y = ifelse(label_id == 5, label_y + 0.02, label_y)) |>
  mutate(label_y = ifelse(label_id == 6, label_y + 0.03, label_y))

# Create plots of proportion of variation explained and PFI values
left_join(
  hct_pv_pfi,
  hct_pfi_labels,
  by = join_by(fpc, fpca, variable, value)
) |>
  mutate(has_label = ifelse(is.na(label_x), F, T)) |>
  ggplot(aes(x = fpc, y = value)) +
  geom_segment(aes(xend = fpc, yend = 0, color = has_label), size = 0.75) +
  facet_wrap(. ~ variable, scales = "free_y", switch = "y") +
  geom_text(aes(x = label_x, y = label_y, label = fpc, color = has_label),
            size = f7_fs / 3) +
  labs(x = "Principal Component") +
  scale_color_manual(values = c("black", col_5groups[1])) +
  theme_bw(base_family = ff, base_size = f7_fs) +
  theme(
    strip.placement = "outside",
    strip.background =
      element_rect(color = "white", fill = "white"),
    axis.title.y = element_blank(),
    axis.title.x = element_text(size = f7_fs),
    axis.text = element_text(size = f7_fs),
    title = element_text(size = f7_fs),
    strip.text = element_text(size = f7_fs),
    legend.position = "none"
  )
)

```

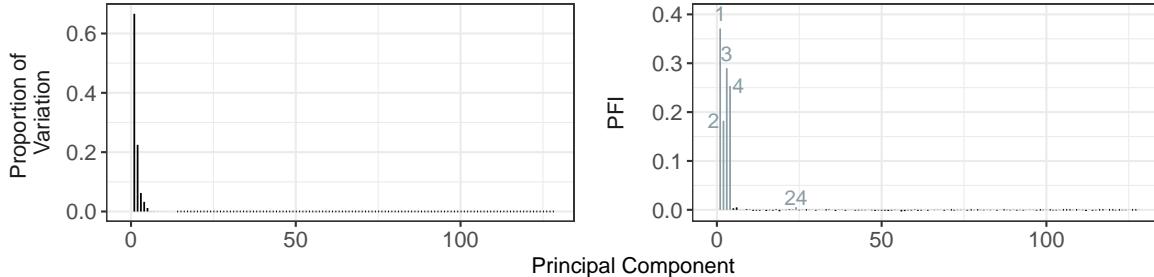


Figure 7: *H-CT Data vfPC Metrics*. Proportion of variation and PFI values associated with vfPCs. vfPCs with the five highest PFI values are labeled and colored.

```

# Specify the figure font size
f8_fs = 38

plot_hct_pcs_dirs <-
  plot_pc_directions(

```

```

fpcs = hct_top_vfpes,
fdasrvf = list(
  "f_pca" = hct_train_vfpca_pcs[, 2:6, ],
  "latent" = hct_train_vfpca_latent
),
times = unique(hct_train_sub$frequency_norm),
fPCA_method = "vfpca",
alpha = 0.9,
nrow = 1,
linesizes = rep(1.75, 5),
linetype = FALSE
) +
theme_bw(base_size = f8_fs, base_family = ff) +
theme(
  strip.background = element_rect(color = "white", fill = "white"),
  aspect.ratio = 0.5,
  legend.position = "bottom",
  axis.title = element_text(size = f8_fs),
  axis.text = element_text(size = f8_fs*0.8),
  title = element_text(size = f8_fs),
  plot.title = element_text(size = f8_fs),
  strip.text = element_text(size = f8_fs),
  legend.text = element_text(size = f8_fs),
  legend.title = element_text(size = f8_fs),
  legend.key.width = unit(2, 'cm')
) +
guides(color = guide_legend(override.aes = list(linewidth = 2))) +
scale_color_manual(values = col_pcdir_2sd) +
labs(
  x = "Normalized Frequency",
  y = "Intensity",
  color = "Material",
  size = "Material",
  linetype = "Material",
  title = "Principal Directions"
)

plot_hct_pcs_diffs <-
plot_pc_diffs(
  fpc = hct_top_vfpes,
  fdasrvf = list(
    "f_pca" = -hct_train_vfpca_pcs[, 2:6, ],
    "latent" = hct_train_vfpca_latent
),
  times = unique(hct_train_sub$frequency_norm),
  fPCA_method = "vfpca",
  alpha = 0.9,
  nrow = 1,
  linesizes = rep(1.75, 4),
  mean_linesize = 1.75,
  linetype = FALSE,
  alpha_fill = 0.1
) +

```

```

theme_bw(base_size = f8_fs, base_family = ff) +
theme(
  strip.background = element_rect(color = "white", fill = "white"),
  aspect.ratio = 0.5,
  legend.position = "bottom",
  axis.title = element_text(size = f8_fs),
  axis.text = element_text(size = f8_fs*0.8),
  title = element_text(size = f8_fs),
  strip.text = element_text(size = f8_fs),
  plot.title = element_text(size = f8_fs),
  legend.text = element_text(size = f8_fs),
  legend.title = element_text(size = f8_fs),
  legend.key.width = unit(2, 'cm')
) +
scale_color_manual(values = col_pcdir_2sd[c(1:2,4:5)]) +
scale_fill_manual(values = col_pcdir_2sd[c(1:2,4:5)]) +
labs(
  x = "Normalized Frequency",
  y = "Intensity",
  color = "Material",
  fill = "Material",
  size = "Material",
  linetype = "Material",
  title = "Principal Differences"
)

plot_grid(
  plot_hct_pcs_dirs + theme(legend.position = "none"),
  plot_hct_pcs_diffs + theme(legend.position = "none"),
  get_plot_component(
    plot_hct_pcs_dirs + theme(legend.key.width = unit(2, 'cm')),
    'guide-box-bottom',
    return_all = TRUE
  ),
  ncol = 1,
  rel_heights = c(0.3, 0.3, 0.05)
)

```

Inkjet Data Analyses

```

# File for results from Buzzini paper
inkjet_paper_res_fp = paste0(fp_res_inkjet, "inkjet-paper-res.csv")
inkjet_paper_res_best_fp = paste0(fp_res_inkjet, "inkjet-paper-res-best.csv")

# Compute cross-validation accuracies
if (!file.exists(inkjet_paper_res_fp)) {

  # Put results from paper in a data frame
  inkjet_paper_res <-
  data.frame(
    color = rep(c("Cyan", "Magenta", "Yellow"), each = 6),
    method = rep(rep(c("PCA + LDA", "PLSDA", "Sparse LDA"), each = 2), 3),

```

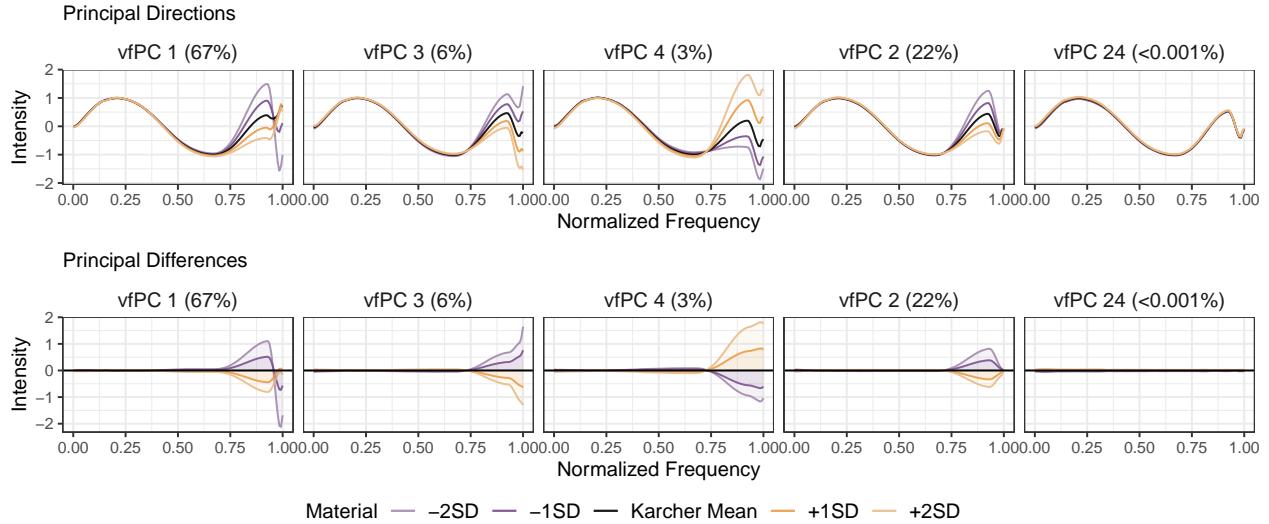


Figure 8: *H-CT Data Important vfPCs*. Principal directions and differences from the five vfPCs with the highest PFI values from the H-CT data example.

```

baseline_corr = rep(c("No", "Yes"), 9),
acc_ave = c(0.86, 0.87, 0.88, 0.87, 0.91, 0.89, 0.88, 0.87, 0.92, 0.91,
            0.92, 0.92, 0.87, 0.87, 0.88, 0.87, 0.92, 0.91),
acc_sd = c(0.08, 0.07, 0.06, 0.06, 0.05, 0.06, 0.07, 0.06, 0.05, 0.06,
            0.06, 0.06, 0.05, 0.05, 0.06, 0.06, 0.04, 0.05),
acc_min = c(0.65, 0.74, 0.73, 0.71, 0.81, 0.79, 0.64, 0.76, 0.81, 0.79,
            0.76, 0.76, 0.76, 0.79, 0.76, 0.76, 0.88, 0.77),
acc_max = c(1.00, 1.00, 0.96, 0.96, 1.00, 1.00, 1.00, 1.00, 0.96, 1.00,
            1.00, 1.00, 1.00, 0.96, 1.00, 0.96, 1.00, 0.96)
) |>
mutate(method_baseline = paste(method, "+", baseline_corr))

# Determine 'best' results from paper methods based on highest accuracy
# and highest minimum accuracy
inkjet_paper_res_best <-
  inkjet_paper_res |>
  filter(acc_ave == max(acc_ave), .by = color) |>
  filter(acc_min == max(acc_min), .by = color)

# Save results from Buzzini paper
write.csv(inkjet_paper_res, inkjet_paper_res_fp, row.names = F)
write.csv(inkjet_paper_res_best, inkjet_paper_res_best_fp, row.names = F)

}

# Load results from Buzzini paper
inkjet_paper_res = read.csv(inkjet_paper_res_fp)
inkjet_paper_res_best = read.csv(inkjet_paper_res_best_fp)

# File path for inkjet data
inkjet_fp = paste0(fp, "data/inkjet-cleaned.csv")

# Create cleaned version of data (if not already created)

```

```

if (!file.exists(inkjet_fp)) {

  # Load the raw data
  inkjet_cyan_raw <- read.csv(
    paste0(fp, "data/RamanInkjet_PrelDataNoBsln1CYANrows.csv")
  )
  inkjet_magenta_raw <- read.csv(
    paste0(fp, "data/RamanInkjet_PrelDataNoBsln2MAGENTArows.csv")
  )
  inkjet_yellow_raw <- read.csv(
    paste0(fp, "data/RamanInkjet_PrelDataNoBsln3YELLOWrows.csv")
  )

  # Add printer labels to the yellow data
  inkjet_yellow_raw <-
    inkjet_yellow_raw |>
    mutate(
      code = case_when(
        str_detect(sample, "s003") ~ "P01",
        str_detect(sample, "s011") ~ "P02",
        str_detect(sample, "s012") ~ "P03",
        str_detect(sample, "s015") ~ "P04",
        str_detect(sample, "s001") ~ "P05",
        str_detect(sample, "s002") ~ "P06",
        str_detect(sample, "s016") ~ "P07",
        str_detect(sample, "s010") ~ "P08",
        str_detect(sample, "s014") ~ "P09",
        str_detect(sample, "s004") ~ "P10",
        str_detect(sample, "s005") ~ "P11"
      )
    ) |>
    select(sample, code, everything())

  # Join the three colors
  inkjet_colors_joined <-
    bind_rows(
      inkjet_cyan_raw,
      inkjet_magenta_raw,
      inkjet_yellow_raw
    )

  # Clean up the data
  inkjet <-
    inkjet_colors_joined |>
    rename("id" = "sample", "printer" = "code") |>
    mutate(printer = as.numeric(str_remove(printer, "P"))) |>
    mutate(id_copy = id) |>
    separate(id_copy,
            sep = 4,
            into = c("ss_printer_code", "sample")) |>
    select(-ss_printer_code) |>
    separate(col = sample,
            into = c("color", "sample"),

```

```

        sep = 1) |>
  mutate(sample = as.numeric(sample)) |>
  select(id, printer, sample, color, everything()) |>
  pivot_longer(
    cols = c(-id, -printer, -color, -sample),
    names_to = "spectra",
    values_to = "intensity"
  ) |>
  mutate(spectra = str_remove(spectra, "X")) |>
  mutate(spectra = -as.numeric(spectra)) |>
  arrange(printer, color, sample)

  # Save cleaned data
  write.csv(inkjet, inkjet_fp, row.names = F)
}

# Load inkjet data
inkjet = read.csv(inkjet_fp)

# File path for cross-validation folds
inkjet_folds_fp = paste0(fp, "data/inkjet-cv-folds.csv")

# Create cross-validation folds if not already created
if (!file.exists(inkjet_folds_fp)) {

  # Determine number of printers
  inkjet_n_printers = length(unique(inkjet$printer))

  # Specify number of repetitions of three-fold cross-validation
  inkjet_n_reps = 10

  # Specify fold options for every 7 observations within a printer
  inkjet_fold_ids = c(1,1,1,2,2,3,3)

  # Randomly assign fold numbers
  set.seed(20221221)
  inkjet_folds <-
  map_df(
    .x = 1:inkjet_n_reps,
    .f = function(r) {
      map_df(
        .x = 1:inkjet_n_printers,
        .f = function(p) {
          inkjet |>
            distinct(printer, sample) |>
            filter(printer == p) |>
            mutate(rep = r) |>
            mutate(fold = sample(
              inkjet_fold_ids,
              length(inkjet_fold_ids),
              replace = F
            ))
        }
    }
  )
}

```

```

        )
    }
)

# Save data with CV folds as CSV
write.csv(inkjet_folds, inkjet_folds_fp, row.names = F)

}

# Load cross-validation folds
inkjet_folds = read.csv(inkjet_folds_fp)

# File paths for saving CV scenarios
fp_inkjet_cv_srfc = paste0(fp_res_inkjet, "inkjet-cv-srfc.rds")
fp_inkjet_cv_rfc = paste0(fp_res_inkjet, "inkjet-cv-rfc.rds")

# Specify parameters for random forests
inkjet_rf_params <-
  expand.grid(
    pcs = seq(10, 100, 10),
    ntrees = c(50, 100, 250, 500, 1000)
  )

# Get cross-validation test fold predictions
if (!file.exists(fp_inkjet_cv_srfc) | !file.exists(fp_inkjet_cv_rfc)) {

  # Specify smoothing values, reps, test fold numbers and color
  inkjet_s = c(0, 5, 10, 15, 20, 25, 30, 35)
  inkjet_reps = sort(unique(inkjet_folds$rep))
  inkjet_test_folds = sort(unique(inkjet_folds$fold))
  inkjet_colors = c("c", "m", "y")

  # Get all combinations of smoothing parameter, rep, fold, and color
  inkjet_smooth_rep_fold_color <-
    expand_grid(
      s = inkjet_s,
      rep = inkjet_reps,
      test_fold = inkjet_test_folds,
      color = inkjet_colors
    )

  # Convert to a list
  inkjet_smooth_rep_fold_color_list <-
    list(
      s = inkjet_smooth_rep_fold_color$s,
      rep = inkjet_smooth_rep_fold_color$rep,
      test_fold = inkjet_smooth_rep_fold_color$test_fold,
      color = inkjet_smooth_rep_fold_color$color
    )

  # Keep only values of rep, test fold, and colors
  inkjet_rep_fold_color <-
    inkjet_smooth_rep_fold_color |>
    distinct(rep, test_fold, color)
}

```

```

# ... and convert to a list
inkjet_rep_fold_color_list <-
  list(
    rep = inkjet_rep_fold_color$rep,
    test_fold = inkjet_rep_fold_color$test_fold,
    color = inkjet_rep_fold_color$color
  )

# Save CV scenarios
saveRDS(inkjet_smooth_rep_fold_color_list, fp_inkjet_cv_srfc)
saveRDS(inkjet_rep_fold_color_list, fp_inkjet_cv_rfc)

}

# Load CV scenarios
inkjet_smooth_rep_fold_color_list = readRDS(fp_inkjet_cv_srfc)
inkjet_rep_fold_color_list = readRDS(fp_inkjet_cv_rfc)

## -----
## 
## THE ESA STEPS IN THE VEESA PIPELINE FOR THE INKJET DATA WAS COMPUTATIONALLY
## INTENSIVE, SO IT WAS RUN USING PYTHON CODE TO SPEED UP THE PROCESS.
##
## THE PYTHON SCRIPTS USED FOR THIS ANALYSIS CAN BE FOUND IN THE FOLDER
## code/04-paper-inkjet-extra/. THIS CODE MUST BE RUN IN ORDER TO RUN THE
## REMAINDER OF THE CODE IN THIS FILE.
##
## THE NUMBERS AT THE BEGINNING OF THE PYTHON SCRIPTS INDICATE THE ORDER IN
## WHICH THE SCRIPTS SHOULD BE RUN. FOR EASE, THE BASH SCRIPT PROVIDED CAN BE
## USED TO RUN ALL INKJET PYTHON SCRIPTS (run-inkjet-scripts.sh).
##
## -----


# File path for saving CV predictions
fp_inkjet_cv_preds = paste0(fp_res_inkjet, "inkjet-cv-preds.rds")

# Get cross-validation test fold predictions
if (!file.exists(fp_inkjet_cv_preds)) {

  # Function for loading inkjet CV objects
  load_inkjet <- function(rep, test_fold, color, data_type, fp, smoothing) {
    py_load_object(
      filename = paste0(
        fp,
        "inkjet/inkjet-cv-s",
        smoothing,
        "-rep_",
        rep,
        "-fold_",
        test_fold,
        "-color_",
        color,
        "_",
        data_type,

```

```

        ".pkl"
    )
)
}

# Function for implementing cross-validation for inkjet data
get_inkjet_rf_cv_preds <-
  function(s, rep_curr, test_fold, color, pcs, ntrees) {

  # Load training data
  train <-
    load_inkjet(
      smoothing = s,
      rep = rep_curr,
      test_fold = test_fold,
      color = color,
      data_type = "jfpc-a-train",
      fp = fp
    )

  # Load testing data
  test <-
    load_inkjet(
      smoothing = s,
      rep = rep_curr,
      test_fold = test_fold,
      color = color,
      data_type = "aligned-jfpc-a-test",
      fp = fp
    )

  # Extract training data printer and sample values
  train_printer_sample <-
    inkjet_folds |>
    filter(rep == rep_curr, fold != test_fold)

  # Extract testing data printer and sample values
  test_printer_sample <-
    inkjet_folds |>
    filter(rep == rep_curr, fold == test_fold)

  # Train models and compute CV predictions
  set.seed(20230630)
  inkjet_cv_preds <-
    map2_df(
      .x = pcs,
      .y = ntrees,
      .f = fit_inkjet_rf_and_predict,
      train = train,
      train_printer_sample = train_printer_sample,
      test = test,
      test_printer_sample = test_printer_sample
    ) |>

```

```

    mutate(
      color = color,
      s = s,
      rep = rep_curr,
      test_fold = test_fold
    ) |>
    select(color, s, rep, test_fold, everything())

  # Return the results
  return(inkjet_cv_preds)

}

# Function for fitting random forests and getting test data predictions
fit_inkjet_rf_and_predict <- function(
  pcs, ntrees, train, train_printer_sample, test, test_printer_sample
) {

  # Create a dataframe with training data
  rf_data <- data.frame(
    printer = factor(train_printer_sample$printer),
    train$coef[,1:pcs]
  )

  # Train random forest
  rf = randomForest(printer ~ ., data = rf_data, ntree = ntrees)

  # Get test fold predictions
  preds = predict(rf, data.frame(test$coef[,1:pcs]))

  # Put predictions in a dataframe
  preds <-
  data.frame(
    pcs = pcs,
    ntrees = ntrees,
    printer = test_printer_sample$printer,
    sample = test_printer_sample$sample,
    pred = as.numeric(as.vector(preds))
  )
}

# Implement CV for all specified scenarios
inkjet_cv_preds <-
pmap_df(
  .l = inkjet_smooth_rep_fold_color_list,
  .f = get_inkjet_rf_cv_preds,
  pcs = inkjet_rf_params$pcs,
  ntrees = inkjet_rf_params$ntrees
)

# Save CV predictions
saveRDS(inkjet_cv_preds, fp_inkjet_cv_preds)

```

```

}

# Load CV results
inkjet_cv_preds <-
  readRDS(fp_inkjet_cv_preds) |>
  mutate(
    color = fct_recode(color, "Cyan" = "c", "Magenta" = "m", "Yellow" = "y")
  )

# File for inkjet data cross-validation accuracies
inkjet_cv_acc_fp = paste0(fp_res_inkjet, "inkjet-cv-accuracy.csv")
inkjet_cv_acc_summary_fp = paste0(fp_res_inkjet, "inkjet-cv-accuracy-summary.csv")
inkjet_res_best_fp = paste0(fp_res_inkjet, "inkjet-cv-res-best.csv")
inkjet_res_worst_fp = paste0(fp_res_inkjet, "inkjet-cv-res-worst.csv")

# Compute cross-validation accuracies
if (!file.exists(inkjet_cv_acc_fp) | !file.exists(inkjet_cv_acc_summary_fp)) {

  # Compute cross-validation accuracies (separately for each repetition)
  inkjet_cv_acc <-
    inkjet_cv_preds |>
    summarise(
      acc = sum(pred == printer) / length(printer),
      .by = c(color, s, pcs, ntrees, rep)
    )

  # Compute cross-validation accuracies (summaries over repetitions)
  inkjet_cv_acc_summary <-
    inkjet_cv_acc |>
    summarise(
      acc_ave = mean(acc),
      acc_sd = sd(acc),
      acc_min = min(acc),
      acc_max = max(acc),
      .by = c(s, color, pcs, ntrees)
    ) |>
    mutate(color = factor(color))

  # Determine top scenarios from CV results based on highest average accuracy
  inkjet_res_best <-
    inkjet_cv_acc_summary |>
    arrange(color, desc(acc_ave)) |>
    slice(1, .by = color) |>
    mutate_at(.vars = vars(acc_ave:acc_max), .funs = round, digits = 4)

  # Determine bottom scenarios from CV results based on lowest average accuracy
  inkjet_res_worst <-
    inkjet_cv_acc_summary |>
    arrange(color, acc_ave) |>
    slice(1, .by = color) |>
    mutate_at(.vars = vars(acc_ave:acc_max), .funs = round, digits = 4)

  # Save test fold accuracies (and best/worst scenarios)
}

```

```

write.csv(inkjet_cv_acc, inkjet_cv_acc_fp, row.names = F)
write.csv(inkjet_cv_acc_summary, inkjet_cv_acc_summary_fp, row.names = F)
write.csv(inkjet_res_best, inkjet_res_best_fp, row.names = F)
write.csv(inkjet_res_worst, inkjet_res_worst_fp, row.names = F)

}

# Load cross-validation accuracies
inkjet_cv_acc = read.csv(inkjet_cv_acc_fp)
inkjet_cv_acc_summary = read.csv(inkjet_cv_acc_summary_fp)
inkjet_res_best = read.csv(inkjet_res_best_fp)
inkjet_res_worst = read.csv(inkjet_res_worst_fp)

# Files for storing inkjet PFI values
inkjet_pfi_best_fp = paste0(fp_res_inkjet, "inkjet-pfi-best.pkl")
inkjet_pfi_worst_fp = paste0(fp_res_inkjet, "inkjet-pfi-worst.pkl")

# Compute PFI for inkjet data
if (!file.exists(inkjet_pfi_best_fp) | !file.exists(inkjet_pfi_worst_fp)) {

  # Extract vector of inkjet printers
  inkjet_printer = inkjet |> distinct(printer, sample) |> pull(printer)

  # Function for computing PFI for a specific inkjet printer scenario
  get_inkjet_pfi <- function(s, color, pcs, ntrees) {
    set.seed(20230705)
    s = ifelse(s < 10, paste0(0, s), s)
    jfpca = py_load_object(paste0(fp, "inkjet/inkjet-", s, "-jfpca-", tolower(color), ".pkl"))
    train = data.frame(printer = factor(inkjet_printer), jfpca$coef[,1:pcs])
    rf = randomForest(printer ~ ., data = train, ntree = ntrees)
    pfi <-
      veesa::compute_pfi(
        x = train |> select(-printer),
        y = train$printer,
        f = rf,
        K = 10,
        metric = "logloss"
      )
    pfi_df <-
      data.frame(
        color = color,
        pc = 1:pcs,
        pfi = pfi$pfi,
        pfi_reps = t(pfi$pfi_single_reps)
      )
    return(list(jfpca = jfpca, pfi_df = pfi_df))
  }

  # Compute PFI for the best inkjet printer scenarios
  inkjet_pfi_best <-
    pmap(
      .l = inkjet_res_best |> select(s, color, pcs, ntrees),
      .f = get_inkjet_pfi
    )
}

```

```

# Compute PFI for the worst inkjet printer scenarios
inkjet_pfi_worst <-
  pmap(
    .l = inkjet_res_worst |> select(s, color, pcs, ntrees),
    .f = get_inkjet_pfi
  )

# Save inkjet PFI results
py_save_object(inkjet_pfi_best, inkjet_pfi_best_fp)
py_save_object(inkjet_pfi_worst, inkjet_pfi_worst_fp)

}

# Load inkjet PFI results
inkjet_pfi_best = py_load_object(inkjet_pfi_best_fp, convert = TRUE)
inkjet_pfi_worst = py_load_object(inkjet_pfi_worst_fp, convert = TRUE)

# Specify the figure font size
f9_fs = 46

# Make list of printer manufacturers and models
inkjet_printer_types <-
  data.frame(
    "printer" = 1:11,
    "manufacturer_model" = c(
      "Brother \nMFC- \n665CW",
      "Canon \nPixma \nMX340",
      "Canon PG \n210XL \n",
      "Epson \nUnknown \n",
      "HP \nOfficejet \n5740",
      "HP \nDeskjet \nf5180",
      "HP \nOfficejet \n6500",
      "HP \nOfficejet \n6500",
      "Lexmark \n228 2010 \nCE 81",
      "Sensient \nUnknown \n",
      "Sensient \nUnknown \n"
    )
  )

# Join printer info
inkjet_printer_plot_data <-
  inkjet |>
  mutate(
    color = fct_recode(color, "Cyan" = "c", "Magenta" = "m", "Yellow" = "y"),
    spectra = -spectra
  ) |>
  left_join(inkjet_printer_types) |>
  mutate(printer = paste0("Printer ", printer, " \n", manufacturer_model))

# Re-level factor
inkjet_printer_plot_data$printer <-
  factor(
    x = inkjet_printer_plot_data$printer,

```

```

    levels = unique(inkjet_printer_plot_data$printer)
  )

# Create figure
inkjet_printer_plot_data |>
  ggplot(aes(x = spectra, y = intensity, group = sample, color = color)) +
  geom_line(alpha = 0.9, linewidth = 0.7) +
  facet_grid(color ~ printer) +
  labs(x = TeX("Wavenumber (cm$^{-1})$"), y = "Intensity") +
  scale_color_manual(values = col_inkjet) +
  scale_x_reverse() +
  theme_bw(base_size = 26) +
  theme(
    legend.position = "none",
    strip.background = element_blank(),
    panel.spacing = unit(0.25, "lines"),
    axis.title = element_text(size = f9_fs),
    axis.text = element_text(size = f9_fs*0.7),
    title = element_text(size = f9_fs),
    strip.text = element_text(size = f9_fs*0.75),
    legend.text = element_text(size = f9_fs),
    legend.title = element_text(size = f9_fs),
    axis.text.x = element_text(angle = 45, vjust = 1, hjust = 1)
  )

```

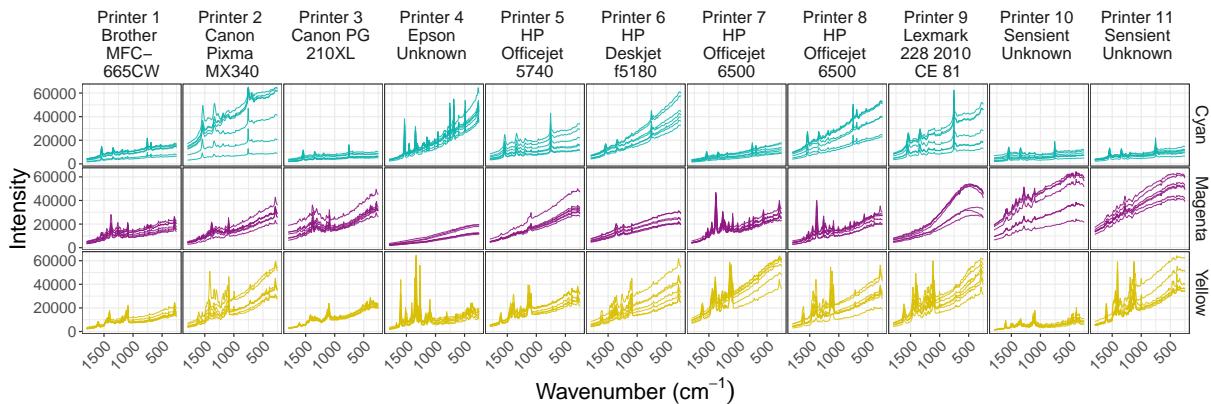


Figure 9: *Inkjet Data Signatures*. Raman spectra signatures from 11 inkjet printers for the colors of cyan, magenta, and yellow with labels for printer manufacturer and model.

```

inkjet_res_best |>
  select(color, s, pcs, ntrees, acc_ave) |>
  rename(veesa_acc = acc_ave) |>
  mutate(scenario = "Best") |>
  bind_rows(
    inkjet_res_worst |>
      select(color, s, pcs, ntrees, acc_ave) |>
      rename(veesa_acc = acc_ave) |>
      mutate(scenario = "Worst")
    ) |>
    left_join(inkjet_paper_res_best |> select(color, acc_ave), by = "color") |>
    select(scenario, everything())

```

```

mutate(acc_ave = ifelse(scenario == "Worst", "-", acc_ave)) |>
  rename(
    Scenario = scenario,
    Color = color,
    "Box-Filter" = s,
    "PCs" = pcs,
    "Trees" = ntrees,
    "VEESA" = veesa_acc,
    "Buzzini" = acc_ave
  ) |>
  knitr::kable(
    caption = "Inkjet Data Cross-Validation Average Accuracies.",
    booktabs = T
  )

```

Table 1: Inkjet Data Cross-Validation Average Accuracies.

Scenario	Color	Box-Filter	PCs	Trees	VEESA	Buzzini
Best	Cyan	20	40	1000	0.9260	0.91
Best	Magenta	5	40	250	0.8896	0.92
Best	Yellow	20	20	1000	0.9286	0.92
Worst	Cyan	0	100	50	0.3532	-
Worst	Magenta	0	90	50	0.5416	-
Worst	Yellow	0	100	50	0.5182	-

```

# Specify the figure font size
f10_fs = 28

bind_rows(
  map_df(inkjet_pfi_best, "pfi_df") |> mutate(scenario = "Best Model"),
  map_df(inkjet_pfi_worst, "pfi_df") |> mutate(scenario = "Worst Model")
) |>
  pivot_longer(
    cols = pfi_reps.1:pfi_reps.10,
    names_to = "rep",
    values_to = "fi"
  ) |>
  group_by(color, pc, scenario) |>
  mutate(
    fi_min = min(fi),
    fi_max = max(fi)
  ) |>
  ungroup() |>
  ggplot(aes(x = pc, y = fi, group = pc)) +
  geom_boxplot(aes(fill = color, color = color), alpha = 0.5) +
  facet_grid(color ~ scenario, scales = "free_x", space = "free_x") +
  scale_color_manual(values = col_inkjet) +
  scale_fill_manual(values = col_inkjet) +
  theme_bw(base_size = f10_fs, base_family = ff) +
  theme(
    legend.position = "none",
    strip.background = element_rect(color = "white", fill = "white"),

```

```

axis.title = element_text(size = f10_fs),
axis.text = element_text(size = f10_fs*0.7),
title = element_text(size = f10_fs),
strip.text = element_text(size = f10_fs),
legend.text = element_text(size = f10_fs),
legend.title = element_text(size = f10_fs)
) +
labs(
  x = "Principal component",
  y = "Feature importance"
)

```

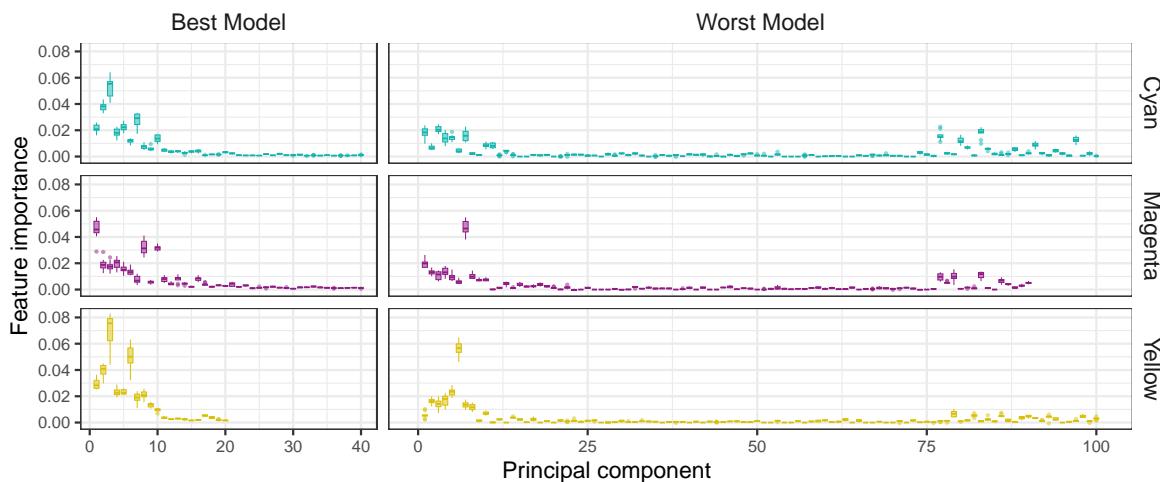


Figure 10: *Inkjet Data Feature Importances*. Boxplots of PFI values across 10 repetitions from the best and worst performing models for cyan, magenta, and yellow inkjet signatures.

```

# Specify the figure font size
f11_fs = 30

plot_inkjet_pcs <- function(pfi_res) {
  pc_order <-
    pfi_res$pfi_df |>
    arrange(desc(pfi)) |>
    pull(pc)
  veeasa::plot_pc_directions(
    fpc = pc_order[1:5],
    fdasrvf = pfi_res$jfpca,
    fpca_method = "jfpca",
    times = -unique(inkjet$spectra),
    alpha = 0.9,
    nrow = 1,
    linesizes = rep(1.5, 7),
    linetype = "solid"
  ) +
    scale_x_reverse() +
    theme_bw(base_size = f11_fs, base_family = ff) +
    theme(
      legend.position = "bottom",
      strip.background = element_rect(color = "white", fill = "white"),

```

```

axis.title = element_text(size = f11_fs),
axis.text = element_text(size = f11_fs),
title = element_text(size = f11_fs),
strip.text = element_text(size = f11_fs),
plot.title = element_text(size = f8_fs*0.9),
legend.text = element_text(size = f11_fs),
legend.title = element_text(size = f11_fs)
) +
scale_color_manual(values = col_pcdir_3sd) +
guides(
  color = guide_legend(nrow = 1),
  size = guide_legend(nrow = 1),
  override.aes = list(alpha = 1, size = 2)
) +
labs(
  x = TeX("Wavenumber (cm$^{-1})$"),
  y = "Intensity",
  title = paste(pfi_res$pfi_df$color[1])
)
}

plot_inkjet_pc_diffs <- function(pfi_res) {
  pc_order <-
    pfi_res$pfi_df |>
    arrange(desc(pfi)) |>
    pull(pc)
  plot_pc_diffs(
    fpc = pc_order[1:5],
    fdasrvf = pfi_res$jfpca,
    fpca_method = "jfpca",
    times = -unique(inkjet$spectra),
    alpha = 0.9,
    nrow = 1,
    linesizes = rep(1.5, 6),
    mean_linesize = 1.5,
    linetype = "solid",
    alpha_fill = 0.1
  ) +
  scale_x_reverse() +
  theme_bw(base_size = f11_fs, base_family = ff) +
  theme(
    legend.position = "bottom",
    strip.background = element_rect(color = "white", fill = "white"),
    axis.title = element_text(size = f11_fs),
    axis.text = element_text(size = f11_fs),
    title = element_text(size = f11_fs),
    strip.text = element_text(size = f11_fs),
    plot.title = element_text(size = f8_fs*0.9),
    legend.text = element_text(size = f11_fs),
    legend.title = element_text(size = f11_fs)
  ) +
  scale_color_manual(values = col_pcdir_3sd[c(1:3,5:7)]) +
  scale_fill_manual(values = col_pcdir_3sd[c(1:3,5:7)])
}

```

```

guides(
  color = guide_legend(nrow = 1),
  fill = guide_legend(nrow = 1),
  size = guide_legend(nrow = 1),
  override.aes = list(alpha = 1, size = 2)
) +
labs(
  x = TeX("Wavenumber (cm$^{-1})$"),
  y = "Intensity",
  title = paste(pfi_res$pfi_df$color[1])
)
}

inkjet_cyan_best_pc_dirs <-
plot_inkjet_pcs(inkjet_pfi_best[[1]]) +
labs(title = "Cyan (PC directions)") +
guides(color = guide_legend(override.aes = list(linewidth = 2)))

inkjet_pfi_best_for_plot = inkjet_pfi_best[[1]]
inkjet_pfi_best_for_plot$jfpca$f_pca = -inkjet_pfi_best_for_plot$jfpca$f_pca

inkjet_cyan_best_pc_diffs <-
plot_inkjet_pc_diffs(inkjet_pfi_best_for_plot) +
labs(title = "Cyan (PC differences)") +
guides(color = guide_legend(override.aes = list(linewidth = 2)))

plot_grid(
  inkjet_cyan_best_pc_dirs + theme(legend.position = "none"),
  inkjet_cyan_best_pc_diffs + theme(legend.position = "none"),
  get_plot_component(
    inkjet_cyan_best_pc_dirs + theme(legend.key.width = unit(2, 'cm')),
    'guide-box-bottom',
    return_all = TRUE
  ),
  ncol = 1,
  rel_heights = c(0.3, 0.3, 0.05)
)

```

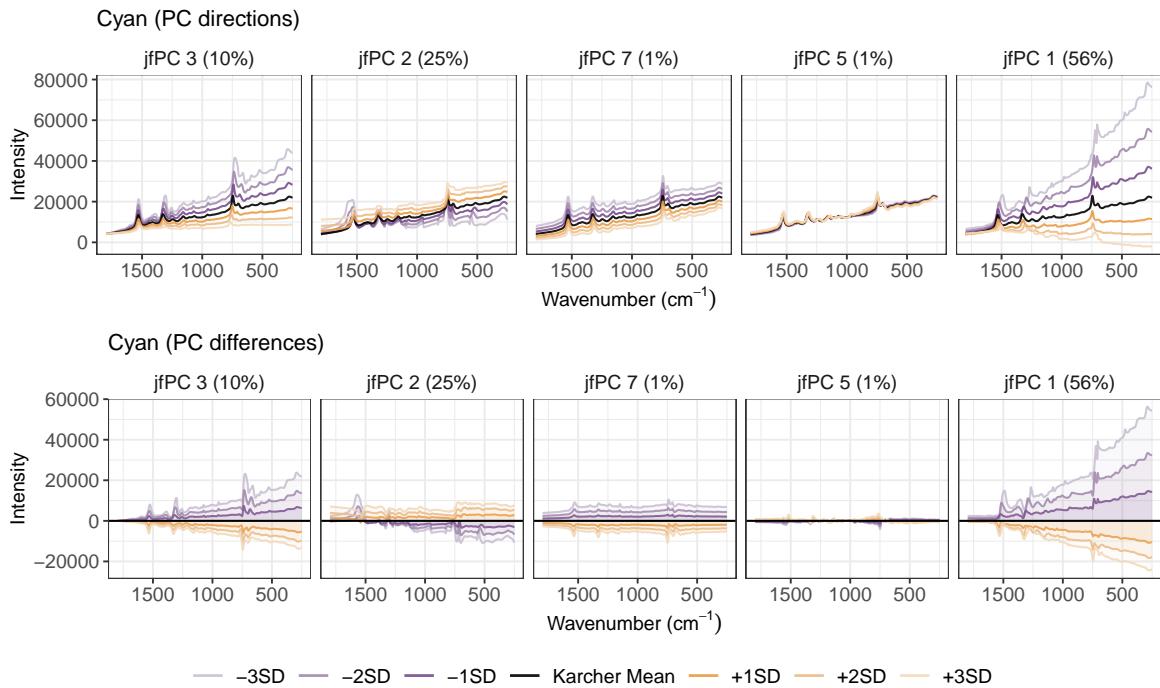


Figure 11: *Inkjet Data Important jfPCs.* jfPCs with the largest PFI values from the best (top) and worst (bottom) models for predicting cyan inkjet signatures. jfPCs ordered from left to right based on highest to lowest feature importance.