Capstone Project Exploratoru Analysis

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*Packages Load*

# load packages  
  
library(readr) # load csv files  
library(readxl) # load excel files  
library(dplyr) # data manipulation

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library(lubridate) # date & time manipulation

##   
## Attaching package: 'lubridate'

## The following objects are masked from 'package:base':  
##   
## date, intersect, setdiff, union

library(ggplot2) # data visualization  
library(tidyr) # collection of statistical packages, packages loaded individually  
library(corrplot) # to visualize correlations

## corrplot 0.92 loaded

library(leaps) # for subset selection  
library(caret) # test for correlation

## Loading required package: lattice

library(car) # for VIF

## Loading required package: carData

##   
## Attaching package: 'car'

## The following object is masked from 'package:dplyr':  
##   
## recode

library(scales) # for visualizing plots in %

##   
## Attaching package: 'scales'

## The following object is masked from 'package:readr':  
##   
## col\_factor

library(forcats) # ordering data frames  
library(codebookr) # adding appendix to r code  
library(gtsummary) # creating tables  
library(cardx) # to include statistic results  
library(moments) # to calculate skewness and kurtosis  
library(tigris) # to access US geographic data

## To enable caching of data, set `options(tigris\_use\_cache = TRUE)`  
## in your R script or .Rprofile.

library(e1071) # For skewness calculation

##   
## Attaching package: 'e1071'

## The following objects are masked from 'package:moments':  
##   
## kurtosis, moment, skewness

library(randomForest) # For bilding random forest models

## randomForest 4.7-1.1

## Type rfNews() to see new features/changes/bug fixes.

##   
## Attaching package: 'randomForest'

## The following object is masked from 'package:ggplot2':  
##   
## margin

## The following object is masked from 'package:dplyr':  
##   
## combine

*Data load*

# load data  
all\_sdoh\_data <- read\_csv("data/sdoh\_data.csv")

## Warning: One or more parsing issues, call `problems()` on your data frame for details,  
## e.g.:  
## dat <- vroom(...)  
## problems(dat)

## Rows: 3229 Columns: 682  
## ── Column specification ────────────────────────────────────────────────────────  
## Delimiter: ","  
## chr (15): COUNTYFIPS, STATEFIPS, STATE, COUNTY, REGION, CAF\_ADJ\_COUNTY\_1, C...  
## dbl (664): YEAR, TERRITORY, ACS\_TOT\_POP\_WT, ACS\_TOT\_POP\_US\_ABOVE1, ACS\_TOT\_P...  
## lgl (3): CAF\_ADJ\_COUNTY\_12, CAF\_ADJ\_COUNTY\_13, CAF\_ADJ\_COUNTY\_14  
##   
## ℹ Use `spec()` to retrieve the full column specification for this data.  
## ℹ Specify the column types or set `show\_col\_types = FALSE` to quiet this message.

dim(all\_sdoh\_data)

## [1] 3229 682

all\_chr\_data <- read\_csv("data/chr\_data.csv", skip = 1)

## Rows: 3194 Columns: 720  
## ── Column specification ────────────────────────────────────────────────────────  
## Delimiter: ","  
## chr (2): state, county  
## dbl (572): statecode, countycode, fipscode, year, county\_ranked, v001\_rawval...  
## lgl (146): v002\_numerator, v002\_denominator, v036\_numerator, v036\_denominato...  
##   
## ℹ Use `spec()` to retrieve the full column specification for this data.  
## ℹ Specify the column types or set `show\_col\_types = FALSE` to quiet this message.

dim(all\_chr\_data)

## [1] 3194 720

# data sets are extremely large, it is determined to remove unwanted features before any analysis

*Initial data cleaning*

# remove unwanted features, create calculated feature, convert fips\_code to data type matching chr\_data  
  
sdoh\_data <- all\_sdoh\_data %>%   
 select("COUNTYFIPS",   
 "STATE",   
 "COUNTY",   
 "REGION",   
 "ACS\_TOT\_POP\_WT",   
 "ACS\_AVG\_HH\_SIZE",   
 "ACS\_PCT\_MALE",   
 "ACS\_PCT\_FEMALE",   
 "ACS\_PCT\_NON\_CITIZEN",   
 "ACS\_PCT\_CTZ\_NATURALIZED",   
 "ACS\_PCT\_CTZ\_ABOVE18",   
 "ACS\_PCT\_ENGL\_NOT\_ALL",   
 "ACS\_PCT\_AIAN",   
 "ACS\_PCT\_ASIAN",   
 "ACS\_PCT\_BLACK",   
 "ACS\_PCT\_HISPANIC",   
 "ACS\_PCT\_OTHER\_RACE",   
 "ACS\_PCT\_WHITE",   
 "ACS\_PCT\_CHILD\_1FAM",   
 "ACS\_PCT\_CHILDREN\_GRANDPARENT",   
 "ACS\_PCT\_GRANDP\_RESPS\_NO\_P",   
 "ACS\_PCT\_GRANDP\_RESPS\_P",   
 "ACS\_PCT\_HH\_NO\_COMP\_DEV",   
 "ACS\_PCT\_HH\_SMARTPHONE",   
 "ACS\_PCT\_HH\_TABLET",   
 "ACS\_PCT\_HH\_PC",   
 "ACS\_PCT\_HH\_OTHER\_COMP",   
 "ACS\_PCT\_HH\_INTERNET",   
 "ACS\_PCT\_HH\_BROADBAND\_ANY",   
 "ACS\_PCT\_HH\_CELLULAR",   
 "ACS\_PCT\_HH\_NO\_INTERNET",   
 "ACS\_PCT\_HH\_SAT\_INTERNET",   
 "ACS\_PCT\_HH\_DIAL\_INTERNET\_ONLY",   
 "ACS\_PCT\_ADMIN",   
 "ACS\_PCT\_ART",   
 "ACS\_PCT\_CONSTRUCT",   
 "ACS\_PCT\_EDUC",   
 "ACS\_PCT\_FINANCE",   
 "ACS\_PCT\_GOVT",   
 "ACS\_PCT\_INFORM",   
 "ACS\_PCT\_MANUFACT",   
 "ACS\_PCT\_NATURE",   
 "ACS\_PCT\_OTHER",   
 "ACS\_PCT\_PROFESS",   
 "ACS\_PCT\_PVT\_NONPROFIT",   
 "ACS\_PCT\_RETAIL",   
 "ACS\_PCT\_TRANSPORT",   
 "ACS\_PCT\_WHOLESALE",   
 "ACS\_PCT\_EMPLOYED",   
 "ACS\_PCT\_UNEMPLOY",   
 "ACS\_GINI\_INDEX",   
 "ACS\_PCT\_HH\_INC\_10000",   
 "ACS\_PCT\_HH\_INC\_100000",   
 "ACS\_PCT\_HH\_INC\_14999",   
 "ACS\_PCT\_HH\_INC\_24999",   
 "ACS\_PCT\_HH\_INC\_49999",   
 "ACS\_PCT\_HH\_INC\_99999",   
 "ACS\_PER\_CAPITA\_INC",   
 "ACS\_MEDIAN\_HOME\_VALUE",   
 "ACS\_MEDIAN\_RENT",   
 "ACS\_PCT\_VACANT\_HU",   
 "ACS\_PCT\_COMMT\_15MIN",   
 "ACS\_PCT\_COMMT\_29MIN",   
 "ACS\_PCT\_COMMT\_59MIN",   
 "ACS\_PCT\_COMMT\_60MINUP",   
 "ACS\_PCT\_PUBL\_TRANSIT",   
 "ACS\_PCT\_MEDICAID\_ANY",   
 "ACS\_PCT\_MEDICARE\_ONLY",   
 "AHRF\_ADV\_NURSES\_RATE",   
 "AHRF\_CLIN\_NURSE\_SPEC\_RATE",   
 "AHRF\_DENTISTS\_RATE",   
 "AHRF\_NURSE\_ANESTH\_RATE",   
 "AHRF\_NURSE\_MIDWIVES\_RATE",   
 "AHRF\_NURSE\_PRACT\_RATE",   
 "AHRF\_PHYSICIAN\_ASSIST\_RATE",   
 "AMFAR\_SSP\_RATE",   
 "AMFAR\_MEDSAFAC\_RATE",  
 "AMFAR\_MHFAC\_RATE",  
 "CEN\_AREALAND\_SQM\_COUNTY",  
 "CEN\_POPDENSITY\_COUNTY",  
 "NEPHTN\_HEATIND\_90",   
 "EPAA\_2NDMAX\_CO\_1HR",  
 "EPAA\_98PR\_NO2\_1HR",  
 "EPAA\_MAX\_PB\_3MON",  
 "EPAA\_98PR\_PM25\_DAILY",  
 "EPAA\_99PR\_SO2\_1HR",   
 "SAIPE\_MEDIAN\_HH\_INCOME",  
 "SAIPE\_PCT\_POV",  
 "LTC\_AVG\_OBS\_REHOSP\_RATE",  
 "LTC\_AVG\_OBS\_SUCCESSFUL\_DISC\_RATE",  
 "MGV\_PER\_CAPITA\_STD\_IP",  
 "MGV\_PER\_CAPITA\_STD\_OP",  
 "MGV\_PER\_CAPITA\_STD\_EM",  
 "MGV\_PER\_CAPITA\_STD\_PA",  
 "MGV\_PER\_CAPITA\_STD\_HC",   
 "POS\_MEDIAN\_DIST\_ED",   
 "POS\_MEDIAN\_DIST\_MEDSURG\_ICU",  
 "POS\_MEDIAN\_DIST\_TRAUMA",  
 "POS\_MEDIAN\_DIST\_PED\_ICU",   
 "POS\_MEDIAN\_DIST\_OBSTETRICS",  
 "POS\_MEDIAN\_DIST\_CLINIC",   
 "POS\_MEDIAN\_DIST\_ALC",   
 ) %>%   
 mutate(percent\_grandparents\_as\_guardians = ACS\_PCT\_CHILDREN\_GRANDPARENT \* ((ACS\_PCT\_GRANDP\_RESPS\_P + ACS\_PCT\_GRANDP\_RESPS\_NO\_P)/100)) %>%   
 select(-ACS\_PCT\_GRANDP\_RESPS\_P, -ACS\_PCT\_GRANDP\_RESPS\_NO\_P, -ACS\_PCT\_CHILDREN\_GRANDPARENT) %>%   
 rename("fips\_code" = "COUNTYFIPS",  
 "state" = "STATE",  
 "county" = "COUNTY",  
 "region" = "REGION",  
 "weighted\_population" = "ACS\_TOT\_POP\_WT",  
 "average\_hh\_size" = "ACS\_AVG\_HH\_SIZE",  
 "pct\_male" = "ACS\_PCT\_MALE",  
 "pct\_female" = "ACS\_PCT\_FEMALE",  
 "pct\_not\_citizens" = "ACS\_PCT\_NON\_CITIZEN",  
 "pct\_naturalized\_citizens" = "ACS\_PCT\_CTZ\_NATURALIZED",  
 "pct\_adult\_citizens" = "ACS\_PCT\_CTZ\_ABOVE18",  
 "pct\_no\_english\_spoken" = "ACS\_PCT\_ENGL\_NOT\_ALL",  
 "pct\_native\_american" = "ACS\_PCT\_AIAN",  
 "pct\_asian" = "ACS\_PCT\_ASIAN",  
 "pct\_black" = "ACS\_PCT\_BLACK",  
 "pct\_hispanic" = "ACS\_PCT\_HISPANIC",  
 "pct\_other\_race" = "ACS\_PCT\_OTHER\_RACE",  
 "pct\_white" = "ACS\_PCT\_WHITE",  
 "pct\_single\_parent" = "ACS\_PCT\_CHILD\_1FAM",  
 "pct\_hh\_no\_computing\_device" = "ACS\_PCT\_HH\_NO\_COMP\_DEV",  
 "pct\_hh\_smartphone" = "ACS\_PCT\_HH\_SMARTPHONE",  
 "pct\_hh\_tablet" = "ACS\_PCT\_HH\_TABLET",  
 "pct\_hh\_computer" = "ACS\_PCT\_HH\_PC",  
 "pct\_hh\_other\_computer" = "ACS\_PCT\_HH\_OTHER\_COMP",  
 "pct\_hh\_internet" = "ACS\_PCT\_HH\_INTERNET",  
 "pct\_hh\_broadband" = "ACS\_PCT\_HH\_BROADBAND\_ANY",  
 "pct\_hh\_cell\_data" = "ACS\_PCT\_HH\_CELLULAR",  
 "pct\_hh\_no\_internet" = "ACS\_PCT\_HH\_NO\_INTERNET",  
 "pct\_hh\_satellite" = "ACS\_PCT\_HH\_SAT\_INTERNET",  
 "pct\_hh\_dial\_up" = "ACS\_PCT\_HH\_DIAL\_INTERNET\_ONLY",  
 "pct\_employed\_admin" = "ACS\_PCT\_ADMIN",  
 "pct\_employed\_arts" = "ACS\_PCT\_ART",   
 "pct\_employed\_construction" = "ACS\_PCT\_CONSTRUCT",  
 "pct\_employed\_education" = "ACS\_PCT\_EDUC",  
 "pct\_employed\_finance" = "ACS\_PCT\_FINANCE",  
 "pct\_employed\_government" = "ACS\_PCT\_GOVT",  
 "pct\_employed\_information" = "ACS\_PCT\_INFORM",  
 "pct\_employed\_manufacturing" = "ACS\_PCT\_MANUFACT",  
 "pct\_employed\_nature" = "ACS\_PCT\_NATURE",  
 "pct\_employed\_other" = "ACS\_PCT\_OTHER",  
 "pct\_employed\_professional" = "ACS\_PCT\_PROFESS",  
 "pct\_employed\_nonprofit" = "ACS\_PCT\_PVT\_NONPROFIT",  
 "pct\_employed\_retail" = "ACS\_PCT\_RETAIL",  
 "pct\_employed\_transportation" = "ACS\_PCT\_TRANSPORT",  
 "pct\_employed\_wholesale" = "ACS\_PCT\_WHOLESALE",  
 "pct\_employed" = "ACS\_PCT\_EMPLOYED",  
 "pct\_unemployed" = "ACS\_PCT\_UNEMPLOY",  
 "gini\_index" = "ACS\_GINI\_INDEX",  
 "pct\_hh\_inc\_10,000" = "ACS\_PCT\_HH\_INC\_10000",  
 "pct\_hh\_inc\_100,000" = "ACS\_PCT\_HH\_INC\_100000",  
 "pct\_hh\_inc\_14,999" = "ACS\_PCT\_HH\_INC\_14999",  
 "pct\_hh\_inc\_24,999" = "ACS\_PCT\_HH\_INC\_24999",  
 "pct\_hh\_inc\_49,999" = "ACS\_PCT\_HH\_INC\_49999",  
 "pct\_hh\_inc\_99999" = "ACS\_PCT\_HH\_INC\_99999", # renamed by mg  
 "per\_capita\_income" = "ACS\_PER\_CAPITA\_INC",  
 "median\_home\_value" = "ACS\_MEDIAN\_HOME\_VALUE",  
 "median\_rent" = "ACS\_MEDIAN\_RENT",  
 "pct\_houses\_vacant" = "ACS\_PCT\_VACANT\_HU",  
 "pct\_15\_min\_commute" = "ACS\_PCT\_COMMT\_15MIN",  
 "pct\_29\_min\_commute" = "ACS\_PCT\_COMMT\_29MIN",  
 "pct\_59\_min\_commute" = "ACS\_PCT\_COMMT\_59MIN",  
 "pct\_60\_min\_plus\_commute" = "ACS\_PCT\_COMMT\_60MINUP",  
 "pct\_public\_transportatin" = "ACS\_PCT\_PUBL\_TRANSIT",  
 "pct\_w\_medicaid" = "ACS\_PCT\_MEDICAID\_ANY",  
 "pct\_w\_medicare" = "ACS\_PCT\_MEDICARE\_ONLY",  
 "adv\_practice\_nurse\_pt" = "AHRF\_ADV\_NURSES\_RATE",  
 "clinical\_nurse\_pt" = "AHRF\_CLIN\_NURSE\_SPEC\_RATE",  
 "dentist\_pt" = "AHRF\_DENTISTS\_RATE",  
 "anesthetist\_nurse\_pt" = "AHRF\_NURSE\_ANESTH\_RATE",  
 "midwife\_pt" = "AHRF\_NURSE\_MIDWIVES\_RATE",  
 "nurse\_practitioner\_pt" = "AHRF\_NURSE\_PRACT\_RATE",  
 "pa\_pt" = "AHRF\_PHYSICIAN\_ASSIST\_RATE",  
 "syringe\_exchange\_pt" = "AMFAR\_SSP\_RATE",  
 "substance\_abuse\_facility\_pt" = "AMFAR\_MEDSAFAC\_RATE",  
 "mental\_health\_faciliy\_pt" = "AMFAR\_MHFAC\_RATE",  
 "land\_area\_sqm" = "CEN\_AREALAND\_SQM\_COUNTY",  
 "population\_density" = "CEN\_POPDENSITY\_COUNTY",  
 "days\_over\_90\_f" = "NEPHTN\_HEATIND\_90",  
 "co\_measure" = "EPAA\_2NDMAX\_CO\_1HR",  
 "no2\_measure" = "EPAA\_98PR\_NO2\_1HR",  
 "pb\_measure" = "EPAA\_MAX\_PB\_3MON",  
 "pm\_2.5\_measure" = "EPAA\_98PR\_PM25\_DAILY",  
 "so2\_measure" = "EPAA\_99PR\_SO2\_1HR",  
 "median\_hh\_income" = "SAIPE\_MEDIAN\_HH\_INCOME",  
 "pct\_people\_in\_poverty" = "SAIPE\_PCT\_POV",  
 "rehospitalization\_rate" = "LTC\_AVG\_OBS\_REHOSP\_RATE",  
 "successful\_discharge\_rate" = "LTC\_AVG\_OBS\_SUCCESSFUL\_DISC\_RATE",  
 "medicare\_inpatient\_payment" = "MGV\_PER\_CAPITA\_STD\_IP" ,  
 "medicare\_outpatient\_payment" = "MGV\_PER\_CAPITA\_STD\_OP",  
 "medicare\_e&m\_payment" = "MGV\_PER\_CAPITA\_STD\_EM",  
 "medicare\_acute\_care\_payment" = "MGV\_PER\_CAPITA\_STD\_PA",  
 "medicare\_fqrc\_rhc\_payment" = "MGV\_PER\_CAPITA\_STD\_HC",  
 "median\_er\_dist" = "POS\_MEDIAN\_DIST\_ED",  
 "median\_surgery\_dist" = "POS\_MEDIAN\_DIST\_MEDSURG\_ICU",  
 "median\_trauma\_center\_dist" = "POS\_MEDIAN\_DIST\_TRAUMA",  
 "median\_pediatric\_icu\_dist" = "POS\_MEDIAN\_DIST\_PED\_ICU",  
 "median\_obstetrics\_dist" = "POS\_MEDIAN\_DIST\_OBSTETRICS",  
 "median\_health\_clinic\_dist" = "POS\_MEDIAN\_DIST\_CLINIC",  
 "median\_drug\_alcohol\_care\_dist" = "POS\_MEDIAN\_DIST\_ALC"  
   
 ) %>%   
 mutate(fips\_code = as.numeric(fips\_code))

# remove unwanted features  
# convert principal care providers from per 100,000 people to per 1,000 people to match other data  
  
chr\_data <- all\_chr\_data %>%  
 select("fipscode",  
 "v002\_rawvalue",  
 "v042\_rawvalue",  
 "v037\_rawvalue",  
 "v009\_rawvalue",  
 "v011\_rawvalue",  
 "v133\_rawvalue",  
 "v070\_rawvalue",  
 "v132\_rawvalue",   
 "v049\_rawvalue",   
 "v014\_rawvalue",   
 "v085\_rawvalue",   
 "v062\_rawvalue",  
 "v050\_rawvalue",  
 "v155\_rawvalue",   
 "v168\_rawvalue",   
 "v069\_rawvalue",   
 "v023\_rawvalue",   
 "v024\_rawvalue",   
 "v044\_rawvalue",   
 "v140\_rawvalue",  
 "v135\_rawvalue",  
 "v125\_rawvalue",  
 "v124\_rawvalue",  
 "v136\_other\_data\_1",  
 "v136\_other\_data\_2",  
 "v136\_other\_data\_3",  
 "v137\_rawvalue",  
 "v147\_rawvalue",  
 "v127\_rawvalue",  
 "v128\_rawvalue",  
 "v129\_rawvalue",  
 "v144\_rawvalue",  
 "v061\_rawvalue",  
 "v139\_rawvalue",  
 "v138\_rawvalue",  
 "v143\_rawvalue",   
 "v021\_rawvalue",  
 "v149\_rawvalue",   
 "v159\_rawvalue",   
 "v160\_rawvalue",  
 "v167\_rawvalue",   
 "v169\_rawvalue",   
 "v151\_rawvalue",   
 "v063\_rawvalue",  
 "v170\_rawvalue",  
 "v065\_rawvalue",  
 "v141\_rawvalue",  
 "v171\_rawvalue",   
 "v015\_rawvalue",   
 "v161\_rawvalue",   
 "v148\_rawvalue",   
 "v158\_rawvalue",   
 "v177\_rawvalue",   
 "v156\_rawvalue",  
 "v153\_numerator",   
 "v052\_rawvalue",   
 "v053\_rawvalue",   
 "v058\_rawvalue",   
 "v004\_rawvalue",   
 "v005\_rawvalue"  
 ) %>%   
 mutate(pcp\_pt = v004\_rawvalue/100) %>%   
 select(-v004\_rawvalue) %>%   
 rename("fips\_code" = "fipscode",  
 "pct\_poor\_to\_fair\_health" = "v002\_rawvalue",  
 "pct\_adult\_smokers" = "v009\_rawvalue",  
 "pct\_obese\_adults" = "v011\_rawvalue",  
 "pct\_no\_exercise" = "v070\_rawvalue",  
 "pct\_binge\_drinkers" = "v049\_rawvalue",  
 "pct\_under\_65\_no\_health\_insurance" = "v085\_rawvalue",  
 "pct\_highschool\_diploma" = "v168\_rawvalue",  
 "pct\_some\_college" = "v069\_rawvalue",  
 "pct\_adult\_poverty" = "v024\_rawvalue",  
 "inequality\_ratio" = "v044\_rawvalue",  
 "social\_clubs\_per\_10k" = "v140\_rawvalue",  
 "air\_polution\_metric" = "v125\_rawvalue",  
 "water\_quality" = "v124\_rawvalue", # renamed by mg  
 "pct\_high\_housing\_costs" = "v136\_other\_data\_1",  
 "pct\_overcrowded\_hh" = "v136\_other\_data\_2",  
 "pct\_no\_kitchen\_or\_plumbinmg" = "v136\_other\_data\_3",  
 "pct\_food\_insecurities" = "v139\_rawvalue",  
 "pct\_insufficient\_sleep" = "v143\_rawvalue",  
 "school\_funding\_gap" = "v169\_rawvalue",  
 "pct\_income\_to\_childcare" = "v171\_rawvalue",  
 "pct\_voters" = "v177\_rawvalue",  
 "pct\_home\_owner" = "v153\_numerator",  
 "pct\_0\_17\_age" = "v052\_rawvalue",  
 "pct\_65\_plus" = "v053\_rawvalue",  
 "pct\_rural\_population" = "v058\_rawvalue",  
 "poor\_mental\_health" = "v042\_rawvalue",  
 "pct\_low\_birthweight" = "v037\_rawvalue",  
 "food\_enviroment" = "v133\_rawvalue",  
 "pct\_access\_to\_exercise" = "v132\_rawvalue",  
 "teen\_births\_prk\_1k" = "v014\_rawvalue",  
 "mental\_health\_providers\_per\_100k" = "v062\_rawvalue",  
 "hospital\_stay\_per\_100k" = "v005\_rawvalue",  
 "pct\_elderly\_mmmograms" = "v050\_rawvalue",  
 "pct\_flu\_vaccines\_billed" = "v155\_rawvalue",  
 "pct\_unemployed" = "v023\_rawvalue",  
 "injury\_death\_rate\_per\_100k" = "v135\_rawvalue",  
 "life\_expectancy\_years" = "v147\_rawvalue",  
 "premature\_deaths\_per\_100k" = "v127\_rawvalue",  
 "underage\_deaths\_per\_100k" = "v128\_rawvalue",  
 "infant\_deaths\_per\_1k\_births" = "v129\_rawvalue",  
 "pct\_poor\_health" = "v144\_rawvalue",  
 "pct\_hiv" = "v061\_rawvalue",  
 "drug\_overdose\_per\_100k" = "v138\_rawvalue",  
 "pct\_insufficieficient\_sleep" = "v143\_rawvalue",  
 "pct\_on\_time\_hs\_graduation" = "v021\_rawvalue",  
 "pct\_disconnected\_youth" = "v149\_rawvalue",  
 "children\_reading\_score" = "v159\_rawvalue",  
 "children\_math\_score" = "v160\_rawvalue",  
 "school\_segregation" = "v167\_rawvalue",  
 "women\_to\_man\_pay\_ratio" = "v151\_rawvalue",  
 "median\_hh\_income" = "v063\_rawvalue",  
 "hourly\_living\_wage" = "v170\_rawvalue",  
 "children\_eligible\_for\_lunch" = "v065\_rawvalue",  
 "black\_white\_segregation" = "v141\_rawvalue",  
 "homicides\_per\_100k" = "v015\_rawvalue",  
 "suicides\_per\_100k" = "v161\_rawvalue",  
 "firearm\_fatalities\_per\_100k" = "v148\_rawvalue",  
 "juvenile\_arrests\_per\_1k" = "v158\_rawvalue",  
 "traffic\_per\_meter" = "v156\_rawvalue",  
 "pct\_30\_min\_plus\_commute" = "v137\_rawvalue")

rm(all\_chr\_data)  
rm(all\_sdoh\_data)

*Combine datasets*

# Create and clean the qol\_data dataset  
qol\_data <- sdoh\_data %>%  
 inner\_join(chr\_data, by = "fips\_code") %>%  
 mutate(response = ifelse(pct\_poor\_to\_fair\_health >= 0.12, "worse", "better")) %>%  
 mutate(response = as.factor(response)) %>%  
 #select(-pct\_poor\_to\_fair\_health) %>% # keep until analysis has been performed  
 mutate\_at(vars(state, county, region), as.factor) # convert characters to factors

*Features with NA’s*

# sum of NAs in each column  
na\_counts <- colSums(is.na(qol\_data))  
  
# combine column names and NA counts into a dataframe  
na\_counts\_df <- data.frame(variable\_name = names(na\_counts), na\_count = na\_counts)  
  
# Sort the dataframe by NA\_Count in descending order  
na\_counts\_df <- na\_counts\_df[order(-na\_counts\_df$na\_count), ]  
  
# View the sorted dataframe  
print(na\_counts\_df)

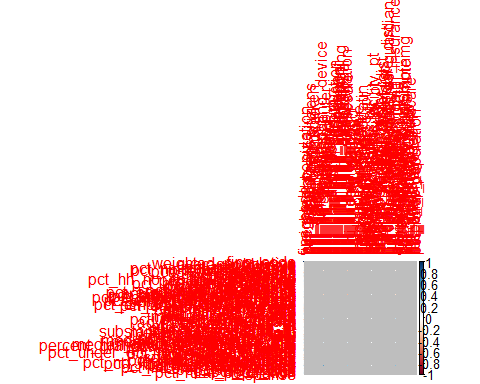
## variable\_name na\_count  
## hourly\_living\_wage hourly\_living\_wage 3142  
## pb\_measure pb\_measure 3106  
## co\_measure co\_measure 2988  
## no2\_measure no2\_measure 2915  
## so2\_measure so2\_measure 2860  
## pm\_2.5\_measure pm\_2.5\_measure 2616  
## pct\_disconnected\_youth pct\_disconnected\_youth 1938  
## infant\_deaths\_per\_1k\_births infant\_deaths\_per\_1k\_births 1925  
## homicides\_per\_100k homicides\_per\_100k 1816  
## drug\_overdose\_per\_100k drug\_overdose\_per\_100k 1345  
## underage\_deaths\_per\_100k underage\_deaths\_per\_100k 1258  
## juvenile\_arrests\_per\_1k juvenile\_arrests\_per\_1k 1178  
## black\_white\_segregation black\_white\_segregation 1059  
## firearm\_fatalities\_per\_100k firearm\_fatalities\_per\_100k 871  
## pct\_on\_time\_hs\_graduation pct\_on\_time\_hs\_graduation 830  
## suicides\_per\_100k suicides\_per\_100k 709  
## children\_eligible\_for\_lunch children\_eligible\_for\_lunch 577  
## pct\_hiv pct\_hiv 459  
## children\_math\_score children\_math\_score 448  
## children\_reading\_score children\_reading\_score 361  
## successful\_discharge\_rate successful\_discharge\_rate 345  
## rehospitalization\_rate rehospitalization\_rate 323  
## school\_segregation school\_segregation 232  
## mental\_health\_providers\_per\_100k mental\_health\_providers\_per\_100k 201  
## teen\_births\_prk\_1k teen\_births\_prk\_1k 189  
## traffic\_per\_meter traffic\_per\_meter 153  
## pcp\_pt pcp\_pt 147  
## pct\_low\_birthweight pct\_low\_birthweight 106  
## injury\_death\_rate\_per\_100k injury\_death\_rate\_per\_100k 105  
## hospital\_stay\_per\_100k hospital\_stay\_per\_100k 71  
## life\_expectancy\_years life\_expectancy\_years 70  
## pct\_access\_to\_exercise pct\_access\_to\_exercise 62  
## premature\_deaths\_per\_100k premature\_deaths\_per\_100k 60  
## school\_funding\_gap school\_funding\_gap 59  
## water\_quality water\_quality 43  
## percent\_grandparents\_as\_guardians percent\_grandparents\_as\_guardians 40  
## days\_over\_90\_f days\_over\_90\_f 34  
## food\_enviroment food\_enviroment 33  
## pct\_voters pct\_voters 30  
## air\_polution\_metric air\_polution\_metric 27  
## medicare\_fqrc\_rhc\_payment medicare\_fqrc\_rhc\_payment 25  
## pct\_elderly\_mmmograms pct\_elderly\_mmmograms 21  
## pct\_flu\_vaccines\_billed pct\_flu\_vaccines\_billed 18  
## median\_pediatric\_icu\_dist median\_pediatric\_icu\_dist 13  
## median\_rent median\_rent 11  
## medicare\_inpatient\_payment medicare\_inpatient\_payment 8  
## medicare\_acute\_care\_payment medicare\_acute\_care\_payment 7  
## inequality\_ratio inequality\_ratio 7  
## women\_to\_man\_pay\_ratio women\_to\_man\_pay\_ratio 7  
## pct\_rural\_population pct\_rural\_population 7  
## median\_home\_value median\_home\_value 6  
## medicare\_outpatient\_payment medicare\_outpatient\_payment 3  
## medicare\_e&m\_payment medicare\_e&m\_payment 3  
## pct\_single\_parent pct\_single\_parent 2  
## median\_hh\_income.x median\_hh\_income.x 2  
## pct\_people\_in\_poverty pct\_people\_in\_poverty 2  
## median\_surgery\_dist median\_surgery\_dist 2  
## median\_trauma\_center\_dist median\_trauma\_center\_dist 2  
## pct\_poor\_to\_fair\_health pct\_poor\_to\_fair\_health 2  
## poor\_mental\_health poor\_mental\_health 2  
## pct\_adult\_smokers pct\_adult\_smokers 2  
## pct\_obese\_adults pct\_obese\_adults 2  
## pct\_no\_exercise pct\_no\_exercise 2  
## pct\_binge\_drinkers pct\_binge\_drinkers 2  
## pct\_poor\_health pct\_poor\_health 2  
## pct\_insufficieficient\_sleep pct\_insufficieficient\_sleep 2  
## median\_hh\_income.y median\_hh\_income.y 2  
## pct\_income\_to\_childcare pct\_income\_to\_childcare 2  
## response response 2  
## weighted\_population weighted\_population 1  
## average\_hh\_size average\_hh\_size 1  
## pct\_male pct\_male 1  
## pct\_female pct\_female 1  
## pct\_not\_citizens pct\_not\_citizens 1  
## pct\_naturalized\_citizens pct\_naturalized\_citizens 1  
## pct\_adult\_citizens pct\_adult\_citizens 1  
## pct\_no\_english\_spoken pct\_no\_english\_spoken 1  
## pct\_native\_american pct\_native\_american 1  
## pct\_asian pct\_asian 1  
## pct\_black pct\_black 1  
## pct\_hispanic pct\_hispanic 1  
## pct\_other\_race pct\_other\_race 1  
## pct\_white pct\_white 1  
## pct\_hh\_no\_computing\_device pct\_hh\_no\_computing\_device 1  
## pct\_hh\_smartphone pct\_hh\_smartphone 1  
## pct\_hh\_tablet pct\_hh\_tablet 1  
## pct\_hh\_computer pct\_hh\_computer 1  
## pct\_hh\_other\_computer pct\_hh\_other\_computer 1  
## pct\_hh\_internet pct\_hh\_internet 1  
## pct\_hh\_broadband pct\_hh\_broadband 1  
## pct\_hh\_cell\_data pct\_hh\_cell\_data 1  
## pct\_hh\_no\_internet pct\_hh\_no\_internet 1  
## pct\_hh\_satellite pct\_hh\_satellite 1  
## pct\_hh\_dial\_up pct\_hh\_dial\_up 1  
## pct\_employed\_admin pct\_employed\_admin 1  
## pct\_employed\_arts pct\_employed\_arts 1  
## pct\_employed\_construction pct\_employed\_construction 1  
## pct\_employed\_education pct\_employed\_education 1  
## pct\_employed\_finance pct\_employed\_finance 1  
## pct\_employed\_government pct\_employed\_government 1  
## pct\_employed\_information pct\_employed\_information 1  
## pct\_employed\_manufacturing pct\_employed\_manufacturing 1  
## pct\_employed\_nature pct\_employed\_nature 1  
## pct\_employed\_other pct\_employed\_other 1  
## pct\_employed\_professional pct\_employed\_professional 1  
## pct\_employed\_nonprofit pct\_employed\_nonprofit 1  
## pct\_employed\_retail pct\_employed\_retail 1  
## pct\_employed\_transportation pct\_employed\_transportation 1  
## pct\_employed\_wholesale pct\_employed\_wholesale 1  
## pct\_employed pct\_employed 1  
## pct\_unemployed.x pct\_unemployed.x 1  
## gini\_index gini\_index 1  
## pct\_hh\_inc\_10,000 pct\_hh\_inc\_10,000 1  
## pct\_hh\_inc\_100,000 pct\_hh\_inc\_100,000 1  
## pct\_hh\_inc\_14,999 pct\_hh\_inc\_14,999 1  
## pct\_hh\_inc\_24,999 pct\_hh\_inc\_24,999 1  
## pct\_hh\_inc\_49,999 pct\_hh\_inc\_49,999 1  
## pct\_hh\_inc\_99999 pct\_hh\_inc\_99999 1  
## per\_capita\_income per\_capita\_income 1  
## pct\_houses\_vacant pct\_houses\_vacant 1  
## pct\_15\_min\_commute pct\_15\_min\_commute 1  
## pct\_29\_min\_commute pct\_29\_min\_commute 1  
## pct\_59\_min\_commute pct\_59\_min\_commute 1  
## pct\_60\_min\_plus\_commute pct\_60\_min\_plus\_commute 1  
## pct\_public\_transportatin pct\_public\_transportatin 1  
## pct\_w\_medicaid pct\_w\_medicaid 1  
## pct\_w\_medicare pct\_w\_medicare 1  
## land\_area\_sqm land\_area\_sqm 1  
## population\_density population\_density 1  
## median\_er\_dist median\_er\_dist 1  
## median\_obstetrics\_dist median\_obstetrics\_dist 1  
## median\_health\_clinic\_dist median\_health\_clinic\_dist 1  
## median\_drug\_alcohol\_care\_dist median\_drug\_alcohol\_care\_dist 1  
## pct\_under\_65\_no\_health\_insurance pct\_under\_65\_no\_health\_insurance 1  
## pct\_unemployed.y pct\_unemployed.y 1  
## pct\_adult\_poverty pct\_adult\_poverty 1  
## fips\_code fips\_code 0  
## state state 0  
## county county 0  
## region region 0  
## adv\_practice\_nurse\_pt adv\_practice\_nurse\_pt 0  
## clinical\_nurse\_pt clinical\_nurse\_pt 0  
## dentist\_pt dentist\_pt 0  
## anesthetist\_nurse\_pt anesthetist\_nurse\_pt 0  
## midwife\_pt midwife\_pt 0  
## nurse\_practitioner\_pt nurse\_practitioner\_pt 0  
## pa\_pt pa\_pt 0  
## syringe\_exchange\_pt syringe\_exchange\_pt 0  
## substance\_abuse\_facility\_pt substance\_abuse\_facility\_pt 0  
## mental\_health\_faciliy\_pt mental\_health\_faciliy\_pt 0  
## pct\_highschool\_diploma pct\_highschool\_diploma 0  
## pct\_some\_college pct\_some\_college 0  
## social\_clubs\_per\_10k social\_clubs\_per\_10k 0  
## pct\_high\_housing\_costs pct\_high\_housing\_costs 0  
## pct\_overcrowded\_hh pct\_overcrowded\_hh 0  
## pct\_no\_kitchen\_or\_plumbinmg pct\_no\_kitchen\_or\_plumbinmg 0  
## pct\_30\_min\_plus\_commute pct\_30\_min\_plus\_commute 0  
## pct\_food\_insecurities pct\_food\_insecurities 0  
## pct\_home\_owner pct\_home\_owner 0  
## pct\_0\_17\_age pct\_0\_17\_age 0  
## pct\_65\_plus pct\_65\_plus 0

# Due to large amount of NA values in these observations, the following will be removed as no clear value can be used to replace the NA's and there are reasonable alternatives to that predictor:  
# hourly\_living\_wage, pb\_measure, co\_measure, no2\_measure, so2\_measure, pm\_2.5\_measure, pct\_disconnected\_youth, infant\_deaths\_per\_1k\_births, homicides\_per\_100k, drug\_overdose\_per\_100k, underage\_deaths\_per\_100k, juvenile\_arrests\_per\_1k, black\_white\_segregation, firearm\_fatalities\_per\_100k, pct\_on\_time\_hs\_graduation, suicides\_per\_100k, children\_eligible\_for\_lunch, pct\_hiv, children\_math\_score, children\_reading\_score, successful\_discharge\_rate, rehospitalization\_rate, school\_segregation\_0:1\_\_low:high, mental\_health\_providers\_per\_100k, teen\_births\_prk\_1k, traffic\_per\_meter, pcp\_pt, pct\_low\_birthweight, injury\_death\_rate\_per\_100k, hospital\_stay\_per\_100k, premature\_deaths\_per\_100k  
  
# This still leaves a large number of predictors which can be further winnowed down due to duplication or near duplication between data-sets:  
# pct\_unemployed.y, median\_hh\_income.y, pct\_15\_min\_commute, pct\_29\_min\_commute, pct\_59\_min\_commute, pct\_60\_min\_plus\_commute, pct\_access\_to\_exercise, poor\_mental\_health, life\_expectancy\_years, food\_enviroment\_1:10\_bad:good, pct\_poor\_health  
  
# Others will be removed due to the data being obscure for our purposes:  
# medicare\_inpatient\_payment, medicare\_outpatient\_payment, medicare\_e&m\_payment, medicare\_acute\_care\_payment, medicare\_fqrc/rhc\_payment, pct\_elderly\_mmmograms, pct\_flu\_vaccines\_billed, pct\_insufficieficient\_sleep, women\_to\_man\_pay\_ratio

qol\_data <- qol\_data %>%   
 select(  
 -hourly\_living\_wage,   
 -pb\_measure,   
 -co\_measure,   
 -no2\_measure,   
 -so2\_measure,   
 -pm\_2.5\_measure,   
 -pct\_disconnected\_youth,   
 -infant\_deaths\_per\_1k\_births,   
 -homicides\_per\_100k,   
 -drug\_overdose\_per\_100k,   
 -underage\_deaths\_per\_100k,   
 -juvenile\_arrests\_per\_1k,   
 -black\_white\_segregation,   
 -firearm\_fatalities\_per\_100k,   
 -pct\_on\_time\_hs\_graduation,   
 -suicides\_per\_100k,   
 -children\_eligible\_for\_lunch,   
 -pct\_hiv,   
 -children\_math\_score,   
 -children\_reading\_score,   
 -successful\_discharge\_rate,   
 -rehospitalization\_rate,   
 -school\_segregation,   
 -mental\_health\_providers\_per\_100k,   
 -teen\_births\_prk\_1k,   
 -traffic\_per\_meter,   
 -pcp\_pt,   
 -pct\_low\_birthweight,   
 -injury\_death\_rate\_per\_100k,   
 -hospital\_stay\_per\_100k,   
 -premature\_deaths\_per\_100k,  
 -pct\_unemployed.y,   
 -median\_hh\_income.y,   
 -pct\_15\_min\_commute,   
 -pct\_29\_min\_commute,   
 -pct\_59\_min\_commute,   
 -pct\_60\_min\_plus\_commute,   
 -pct\_access\_to\_exercise,   
 -pct\_poor\_health,   
 # -life\_expectancy\_years, # keep for initial analysis   
 -food\_enviroment,   
 -poor\_mental\_health,  
 -medicare\_inpatient\_payment,   
 -medicare\_outpatient\_payment,   
 -matches("medicare\_e&m\_payment"),   
 -medicare\_acute\_care\_payment,   
 -medicare\_fqrc\_rhc\_payment,   
 -pct\_elderly\_mmmograms,   
 -pct\_flu\_vaccines\_billed,   
 -pct\_insufficieficient\_sleep,   
 -women\_to\_man\_pay\_ratio   
 ) %>%   
 na.omit()

*Correlation*

# find predictors with high correlation to shrink the model  
  
# subset qol\_data to include only numeric variables  
# identify values with variance inflation factors  
qol\_numeric <- qol\_data %>%  
 mutate(response = if\_else(response == "worse", 0, 1)) %>%   
 select(-state,  
 -county,  
 -region)  
  
# calculate the correlation matrix  
cor\_matrix <- cor(qol\_numeric)  
  
# plot correlations to visualize  
corrplot(cor\_matrix, method = "circle") # data too dense to visualize



# find the indices of correlations greater than 0.7  
high\_cor\_indices <- which(abs(cor\_matrix) > 0.7, arr.ind = TRUE) # 0.8 is more commonly accepted, also run regression andview variance inflation factors with logistic regression  
  
# extract the pairs of variables with correlation greater than 0.7  
high\_cor\_pairs <- data.frame(  
 var1 = rownames(cor\_matrix)[high\_cor\_indices[, 1]],  
 var2 = colnames(cor\_matrix)[high\_cor\_indices[, 2]],  
 correlation = cor\_matrix[high\_cor\_indices]  
)  
  
# filter out duplicates and self-correlations  
high\_cor\_pairs <- high\_cor\_pairs[high\_cor\_pairs$var1 != high\_cor\_pairs$var2, ]  
high\_cor\_pairs <- high\_cor\_pairs[!duplicated(t(apply(high\_cor\_pairs, 1, sort))), ]  
  
print(high\_cor\_pairs)

## var1 var2 correlation  
## 3 pct\_home\_owner weighted\_population 0.9768797  
## 6 pct\_female pct\_male -1.0000000  
## 10 pct\_naturalized\_citizens pct\_not\_citizens 0.7460535  
## 11 pct\_adult\_citizens pct\_not\_citizens -0.7604839  
## 12 pct\_no\_english\_spoken pct\_not\_citizens 0.8039729  
## 13 pct\_hispanic pct\_not\_citizens 0.7112025  
## 16 pct\_asian pct\_naturalized\_citizens 0.7205063  
## 19 pct\_0\_17\_age pct\_adult\_citizens -0.7853593  
## 22 pct\_hispanic pct\_no\_english\_spoken 0.7028031  
## 27 pct\_white pct\_black -0.8307521  
## 36 pct\_hh\_smartphone pct\_hh\_no\_computing\_device -0.8745077  
## 37 pct\_hh\_tablet pct\_hh\_no\_computing\_device -0.8329862  
## 38 pct\_hh\_computer pct\_hh\_no\_computing\_device -0.8579791  
## 39 pct\_hh\_internet pct\_hh\_no\_computing\_device -0.8829880  
## 40 pct\_hh\_broadband pct\_hh\_no\_computing\_device -0.8841641  
## 41 pct\_hh\_cell\_data pct\_hh\_no\_computing\_device -0.7829934  
## 42 pct\_hh\_no\_internet pct\_hh\_no\_computing\_device 0.9160206  
## 45 pct\_hh\_tablet pct\_hh\_smartphone 0.7294597  
## 46 pct\_hh\_internet pct\_hh\_smartphone 0.7386430  
## 47 pct\_hh\_broadband pct\_hh\_smartphone 0.7491716  
## 48 pct\_hh\_cell\_data pct\_hh\_smartphone 0.7969493  
## 49 pct\_hh\_no\_internet pct\_hh\_smartphone -0.7612280  
## 53 pct\_hh\_computer pct\_hh\_tablet 0.8641927  
## 54 pct\_hh\_internet pct\_hh\_tablet 0.8455591  
## 55 pct\_hh\_broadband pct\_hh\_tablet 0.8460944  
## 56 pct\_hh\_cell\_data pct\_hh\_tablet 0.7637942  
## 57 pct\_hh\_no\_internet pct\_hh\_tablet -0.8623915  
## 58 pct\_hh\_inc\_100,000 pct\_hh\_tablet 0.7582842  
## 59 median\_hh\_income.x pct\_hh\_tablet 0.7668542  
## 60 pct\_adult\_poverty pct\_hh\_tablet -0.7047426  
## 64 pct\_hh\_internet pct\_hh\_computer 0.8636050  
## 65 pct\_hh\_broadband pct\_hh\_computer 0.8596444  
## 66 pct\_hh\_cell\_data pct\_hh\_computer 0.7091640  
## 67 pct\_hh\_no\_internet pct\_hh\_computer -0.8930643  
## 68 pct\_hh\_inc\_100,000 pct\_hh\_computer 0.7442133  
## 69 per\_capita\_income pct\_hh\_computer 0.7480006  
## 70 median\_hh\_income.x pct\_hh\_computer 0.7642493  
## 71 pct\_people\_in\_poverty pct\_hh\_computer -0.7301866  
## 72 pct\_poor\_to\_fair\_health pct\_hh\_computer -0.7925179  
## 73 pct\_adult\_smokers pct\_hh\_computer -0.7288549  
## 74 pct\_no\_exercise pct\_hh\_computer -0.8008113  
## 75 pct\_some\_college pct\_hh\_computer 0.7203738  
## 76 pct\_adult\_poverty pct\_hh\_computer -0.7708390  
## 83 pct\_hh\_broadband pct\_hh\_internet 0.9982100  
## 84 pct\_hh\_cell\_data pct\_hh\_internet 0.8652018  
## 85 pct\_hh\_no\_internet pct\_hh\_internet -0.9720126  
## 86 median\_hh\_income.x pct\_hh\_internet 0.7107642  
## 87 pct\_adult\_poverty pct\_hh\_internet -0.7112662  
## 94 pct\_hh\_cell\_data pct\_hh\_broadband 0.8720069  
## 95 pct\_hh\_no\_internet pct\_hh\_broadband -0.9704187  
## 96 median\_hh\_income.x pct\_hh\_broadband 0.7111758  
## 97 pct\_adult\_poverty pct\_hh\_broadband -0.7042475  
## 105 pct\_hh\_no\_internet pct\_hh\_cell\_data -0.8380513  
## 114 median\_hh\_income.x pct\_hh\_no\_internet -0.7109353  
## 115 pct\_adult\_poverty pct\_hh\_no\_internet 0.7216922  
## 119 pct\_employed\_government pct\_employed\_admin 0.7410970  
## 131 median\_rent pct\_employed\_professional 0.7117222  
## 137 pct\_unemployed.x pct\_employed -1.0000000  
## 142 pct\_people\_in\_poverty pct\_hh\_inc\_10,000 0.8218685  
## 143 pct\_poor\_to\_fair\_health pct\_hh\_inc\_10,000 0.7349967  
## 144 pct\_adult\_poverty pct\_hh\_inc\_10,000 0.7782551  
## 145 inequality\_ratio pct\_hh\_inc\_10,000 0.7372305  
## 146 pct\_food\_insecurities pct\_hh\_inc\_10,000 0.7375304  
## 150 pct\_hh\_inc\_24,999 pct\_hh\_inc\_100,000 -0.7620918  
## 151 pct\_hh\_inc\_49,999 pct\_hh\_inc\_100,000 -0.7922814  
## 152 per\_capita\_income pct\_hh\_inc\_100,000 0.8745999  
## 153 median\_home\_value pct\_hh\_inc\_100,000 0.7586850  
## 154 median\_rent pct\_hh\_inc\_100,000 0.7942470  
## 155 median\_hh\_income.x pct\_hh\_inc\_100,000 0.9315370  
## 156 pct\_adult\_smokers pct\_hh\_inc\_100,000 -0.7364367  
## 158 median\_hh\_income.x pct\_hh\_inc\_14,999 -0.7039120  
## 159 pct\_people\_in\_poverty pct\_hh\_inc\_14,999 0.7025136  
## 160 pct\_adult\_poverty pct\_hh\_inc\_14,999 0.7047035  
## 163 median\_hh\_income.x pct\_hh\_inc\_24,999 -0.7697360  
## 164 pct\_adult\_poverty pct\_hh\_inc\_24,999 0.7091168  
## 167 median\_hh\_income.x pct\_hh\_inc\_49,999 -0.7282559  
## 172 median\_home\_value per\_capita\_income 0.7445663  
## 173 median\_rent per\_capita\_income 0.7042592  
## 174 median\_hh\_income.x per\_capita\_income 0.8430250  
## 175 pct\_people\_in\_poverty per\_capita\_income -0.7147403  
## 176 pct\_poor\_to\_fair\_health per\_capita\_income -0.7507918  
## 177 pct\_adult\_smokers per\_capita\_income -0.7274287  
## 178 pct\_no\_exercise per\_capita\_income -0.7372847  
## 179 pct\_some\_college per\_capita\_income 0.7004612  
## 183 median\_rent median\_home\_value 0.8494514  
## 184 median\_hh\_income.x median\_home\_value 0.7430840  
## 190 median\_hh\_income.x median\_rent 0.7676485  
## 193 population\_density pct\_public\_transportatin 0.7390805  
## 195 pct\_people\_in\_poverty pct\_w\_medicaid 0.7501432  
## 196 pct\_poor\_to\_fair\_health pct\_w\_medicaid 0.7126802  
## 197 pct\_adult\_poverty pct\_w\_medicaid 0.7579946  
## 198 pct\_food\_insecurities pct\_w\_medicaid 0.7029890  
## 201 anesthetist\_nurse\_pt adv\_practice\_nurse\_pt 0.7561631  
## 202 nurse\_practitioner\_pt adv\_practice\_nurse\_pt 0.9596472  
## 231 pct\_people\_in\_poverty median\_hh\_income.x -0.7771547  
## 232 pct\_adult\_smokers median\_hh\_income.x -0.7401780  
## 233 pct\_adult\_poverty median\_hh\_income.x -0.7728660  
## 241 pct\_poor\_to\_fair\_health pct\_people\_in\_poverty 0.8297380  
## 242 pct\_no\_exercise pct\_people\_in\_poverty 0.7650908  
## 243 pct\_adult\_poverty pct\_people\_in\_poverty 0.9133787  
## 244 pct\_food\_insecurities pct\_people\_in\_poverty 0.7973447  
## 259 pct\_adult\_smokers pct\_poor\_to\_fair\_health 0.7272550  
## 260 pct\_obese\_adults pct\_poor\_to\_fair\_health 0.7220514  
## 261 pct\_no\_exercise pct\_poor\_to\_fair\_health 0.9262070  
## 262 pct\_highschool\_diploma pct\_poor\_to\_fair\_health -0.8215580  
## 263 pct\_some\_college pct\_poor\_to\_fair\_health -0.7396619  
## 264 pct\_adult\_poverty pct\_poor\_to\_fair\_health 0.8413465  
## 265 life\_expectancy\_years pct\_poor\_to\_fair\_health -0.7028386  
## 266 pct\_food\_insecurities pct\_poor\_to\_fair\_health 0.8186087  
## 273 pct\_obese\_adults pct\_adult\_smokers 0.7038164  
## 274 pct\_no\_exercise pct\_adult\_smokers 0.7749808  
## 275 life\_expectancy\_years pct\_adult\_smokers -0.7111940  
## 279 pct\_no\_exercise pct\_obese\_adults 0.7870511  
## 287 pct\_highschool\_diploma pct\_no\_exercise -0.7694530  
## 288 pct\_some\_college pct\_no\_exercise -0.7258065  
## 289 pct\_adult\_poverty pct\_no\_exercise 0.7775970  
## 290 life\_expectancy\_years pct\_no\_exercise -0.7102781  
## 291 pct\_food\_insecurities pct\_no\_exercise 0.7098093  
## 297 pct\_some\_college pct\_highschool\_diploma 0.7441917  
## 318 pct\_food\_insecurities pct\_adult\_poverty 0.8111507

# Remove predictors with large correlation value (|0.7|) or greater with multi-colinearity and low relevance.

qol\_data <- qol\_data %>%  
 select(-adv\_practice\_nurse\_pt,  
 -pct\_0\_17\_age,  
 -pct\_adult\_poverty,  
 -pct\_female,  
 -pct\_hh\_broadband,  
 -pct\_hh\_cell\_data,  
 -matches("pct\_hh\_inc\_10,000"),  
 -matches("pct\_hh\_inc\_100,000"),  
 -matches("pct\_hh\_inc\_14,999"),  
 -matches("pct\_hh\_inc\_24,999"),  
 -matches("pct\_hh\_inc\_49,999"),  
 -pct\_hh\_no\_computing\_device,  
 -pct\_hh\_no\_internet,  
 -pct\_hh\_smartphone,  
 -pct\_hh\_tablet,  
 -pct\_no\_exercise,  
 -pct\_not\_citizens,  
 -pct\_people\_in\_poverty,  
 -pct\_unemployed.x,  
 -per\_capita\_income,  
 -weighted\_population,  
 -pct\_food\_insecurities,  
 -pct\_hh\_computer,  
 -pct\_naturalized\_citizens,  
 -median\_rent,  
 -median\_home\_value,  
 -pct\_w\_medicaid  
 )

*Near zero variance*

# identify predictors with near-zero variance (high collinearity)  
nzv <- nearZeroVar(qol\_numeric, saveMetrics = TRUE)  
  
# select for predictors with near zero variance  
nzv <- nzv[nzv$nzv == TRUE, ]  
print(nzv)

## freqRatio percentUnique zeroVar nzv  
## syringe\_exchange\_pt 447.3333 5.922166 FALSE TRUE

# remove features with near zero variance  
qol\_data <- qol\_data %>%  
 select(-syringe\_exchange\_pt  
 )

*Features with low interest*

# per group discussion, remove low interest features from model  
qol\_data <- qol\_data %>%  
 select(-pct\_adult\_citizens,  
 -pct\_no\_english\_spoken,  
 -pct\_hh\_satellite,  
 -pct\_hh\_dial\_up,  
 -pct\_employed\_admin,  
 -pct\_employed\_arts,  
 -pct\_employed\_construction,  
 -pct\_employed\_education,  
 -pct\_employed\_finance,  
 -pct\_employed\_government,  
 -pct\_employed\_information,  
 -pct\_employed\_manufacturing,  
 -pct\_employed\_nature,  
 -pct\_employed\_other,  
 -pct\_employed\_professional,  
 -pct\_employed\_nonprofit,  
 -pct\_employed\_retail,  
 -pct\_employed\_transportation,  
 -pct\_employed\_wholesale,  
 -gini\_index,  
 -pct\_houses\_vacant,  
 -pct\_public\_transportatin,  
 -anesthetist\_nurse\_pt,  
 -midwife\_pt,  
 -nurse\_practitioner\_pt,  
 -substance\_abuse\_facility\_pt,  
 -land\_area\_sqm,  
 -median\_surgery\_dist,  
 -median\_obstetrics\_dist,  
 -pct\_some\_college,  
 -pct\_no\_kitchen\_or\_plumbinmg,  
 -pct\_income\_to\_childcare,  
 )

*Variance inflation features*

# run a pca (DO this with 0, 1) or lda (prefered) on numeric data

qol\_numeric <- qol\_data %>%   
 select(-state,  
 -county,  
 -region,  
 -life\_expectancy\_years,  
 -fips\_code)  
  
  
  
vif\_values <- vif(lm(response ~ ., data = qol\_numeric))

## Warning in model.response(mf, "numeric"): using type = "numeric" with a factor  
## response will be ignored

## Warning in Ops.factor(y, z$residuals): '-' not meaningful for factors

## Warning in Ops.factor(r, 2): '^' not meaningful for factors

## Warning in cov2cor(v): diag(V) had non-positive or NA entries; the non-finite  
## result may be dubious

high\_vif <- names(vif\_values[vif\_values > 5])  
high\_vif

## [1] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA  
## [26] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA

# no further feature removal needed at this point

*Subset regression viability check*

# identify best model for response with regsubset, tests for linear models   
qol\_regfit\_full <- regsubsets(response ~ ., qol\_numeric,  
 really.big = TRUE,  
 nvmax = 45)

reg\_fit\_summary <- summary(qol\_regfit\_full)  
  
# identifying ideal number of variables for each metric  
which.min(reg\_fit\_summary$rss) # always selects for model with all predictors, over-fits to training data

## [1] 45

which.max(reg\_fit\_summary$adjr2) # increases with additional predictors, susceptible to training error

## [1] 28

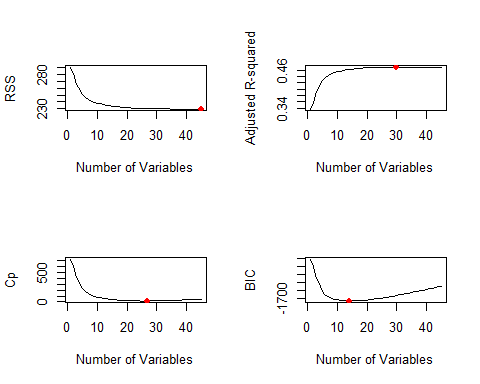
which.min(reg\_fit\_summary$cp) # penalizes models with more predictors with unbiased measure of MSE

## [1] 26

which.min(reg\_fit\_summary$bic) # like Cp, but includes penalty term log(n) in error so more error introduced with more predictors

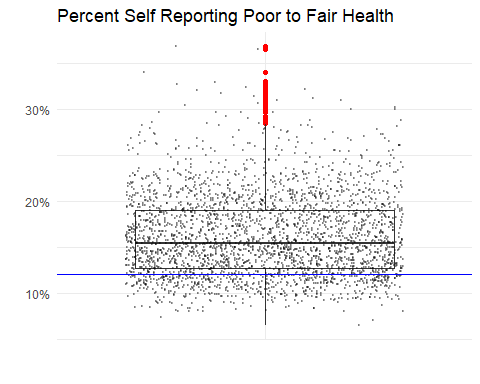
## [1] 14

# create plots of each metric to visualize   
  
par(mfrow = c(2,2))  
  
plot(reg\_fit\_summary$rss,  
 xlab="Number of Variables",  
 ylab="RSS",  
 type="l")  
points(45, reg\_fit\_summary$rss[45], col="red",cex=1.5,pch =20)  
  
plot(reg\_fit\_summary$adjr2,  
 xlab = "Number of Variables",  
 ylab = "Adjusted R-squared",  
 type = "l")  
points(30, reg\_fit\_summary$adjr2[30], col="red",cex=1.5,pch =20)  
  
plot(reg\_fit\_summary$cp,  
 xlab = "Number of Variables",  
 ylab = "Cp",  
 type = "l")  
points(27, reg\_fit\_summary$cp[27], col="red",cex=1.5,pch =20)  
  
plot(reg\_fit\_summary$bic,  
 xlab = "Number of Variables",  
 ylab = "BIC",  
 type = "l")  
points (14, reg\_fit\_summary$bic[14], col = "red", cex = 1.5, pch = 20)



*Updating response*

ggplot(qol\_data,  
 mapping = aes(x = '', y = pct\_poor\_to\_fair\_health)) +  
 geom\_boxplot(outlier.colour = 'red') +  
 geom\_jitter(alpha = 0.3, size = 0.2) +  
 theme\_minimal() +  
 labs(x = "",  
 y = "",  
 title = "Percent Self Reporting Poor to Fair Health") +  
 scale\_y\_continuous(labels = percent\_format(scale = 100)) +  
 geom\_hline(yintercept = 0.12, color = "blue")



# with the presence of outliers having high percent self reporting and a lower limit that is not able to be less tha, will use the

# identify new median  
median\_result <- median(qol\_data$pct\_poor\_to\_fair\_health)  
  
qol\_data <- qol\_data %>%  
 mutate(response = ifelse(pct\_poor\_to\_fair\_health >= median\_result, "worse", "better")) %>%  
 mutate(response = as.factor(response))  
  
# United States self reported poor to fair health is 12% per chr data. However, the median value of this result is 15.4% for included observations (not weighted)

*Data overview*

# inspect dataset structure and summary  
str(qol\_data)

## tibble [2,955 × 51] (S3: tbl\_df/tbl/data.frame)  
## $ fips\_code : num [1:2955] 1001 1003 1005 1007 1009 ...  
## $ state : Factor w/ 51 levels "Alabama","Alaska",..: 1 1 1 1 1 1 1 1 1 1 ...  
## $ county : Factor w/ 1875 levels "Abbeville County",..: 84 91 102 151 166 227 237 250 298 320 ...  
## $ region : Factor w/ 4 levels "Midwest","Northeast",..: 3 3 3 3 3 3 3 3 3 3 ...  
## $ average\_hh\_size : num [1:2955] 2.55 2.56 2.37 2.85 2.7 2.84 2.92 2.5 2.42 2.38 ...  
## $ pct\_male : num [1:2955] 48.6 48.5 52.6 53.7 49.6 ...  
## $ pct\_native\_american : num [1:2955] 0.28 0.69 0.35 0.05 0.1 0 0.33 0.31 0.24 0.58 ...  
## $ pct\_asian : num [1:2955] 1.17 0.93 0.49 0.25 0.41 1.35 1.32 0.81 1.1 0.1 ...  
## $ pct\_black : num [1:2955] 19.53 8.77 47.67 22.55 1.4 ...  
## $ pct\_hispanic : num [1:2955] 2.88 4.56 4.44 2.68 9.28 8.1 1.47 3.85 2.52 1.66 ...  
## $ pct\_other\_race : num [1:2955] 0.67 1.56 3.1 0.04 1.8 3.13 0.5 1.64 0.79 0.81 ...  
## $ pct\_white : num [1:2955] 75.8 85.4 46.3 76.6 94 ...  
## $ pct\_single\_parent : num [1:2955] 27.4 18.1 52.8 32.2 25.8 ...  
## $ pct\_hh\_other\_computer : num [1:2955] 1.05 1.75 2.15 0.23 2.16 1.84 5.07 2.43 1.63 0.85 ...  
## $ pct\_hh\_internet : num [1:2955] 82.8 85.5 65 76.2 80 ...  
## $ pct\_employed : num [1:2955] 97.1 96.1 93.1 92.6 94.8 ...  
## $ pct\_hh\_inc\_99999 : num [1:2955] 30.4 30.5 23.6 34.9 28.6 ...  
## $ pct\_w\_medicare : num [1:2955] 6.87 7.27 7.51 7.74 8.81 5.87 7.49 5.18 7.36 9.26 ...  
## $ clinical\_nurse\_pt : num [1:2955] 0.02 0.02 0 0 0 0 0 0.01 0 0.04 ...  
## $ dentist\_pt : num [1:2955] 0.34 0.49 0.37 0.27 0.19 0.2 0.36 0.68 0.21 0.15 ...  
## $ pa\_pt : num [1:2955] 0.04 0.17 0.04 0.23 0 0.1 0 0.1 0 0 ...  
## $ mental\_health\_faciliy\_pt : num [1:2955] 0.0178 0.0174 0.0813 0 0.0173 ...  
## $ population\_density : num [1:2955] 93.6 137.3 28.3 35.9 89.6 ...  
## $ days\_over\_90\_f : num [1:2955] 104 97 104 97 80 103 103 84 87 85 ...  
## $ median\_hh\_income.x : num [1:2955] 67565 71135 38866 50907 55203 ...  
## $ median\_er\_dist : num [1:2955] 2.25 6.01 5.58 8.44 10.56 ...  
## $ median\_trauma\_center\_dist : num [1:2955] 12.1 25.4 41.4 26.4 26.2 ...  
## $ median\_pediatric\_icu\_dist : num [1:2955] 55.6 22.6 63.8 22 52.2 ...  
## $ median\_health\_clinic\_dist : num [1:2955] 9.2 8.57 1.17 3.85 3.91 1.63 2.83 4.08 4.42 6.57 ...  
## $ median\_drug\_alcohol\_care\_dist : num [1:2955] 12.2 13.2 35.7 26.5 25.2 ...  
## $ percent\_grandparents\_as\_guardians: num [1:2955] 4.9 5.96 11.17 12.54 6.23 ...  
## $ pct\_poor\_to\_fair\_health : num [1:2955] 0.169 0.149 0.275 0.216 0.184 0.297 0.227 0.196 0.215 0.193 ...  
## $ pct\_adult\_smokers : num [1:2955] 0.183 0.169 0.259 0.228 0.218 0.255 0.223 0.21 0.217 0.227 ...  
## $ pct\_obese\_adults : num [1:2955] 0.373 0.326 0.464 0.384 0.327 0.483 0.454 0.374 0.412 0.413 ...  
## $ pct\_binge\_drinkers : num [1:2955] 0.167 0.19 0.134 0.159 0.163 ...  
## $ pct\_under\_65\_no\_health\_insurance : num [1:2955] 0.106 0.109 0.144 0.13 0.133 ...  
## $ pct\_highschool\_diploma : num [1:2955] 0.896 0.91 0.757 0.805 0.836 ...  
## $ inequality\_ratio : num [1:2955] 4.79 4.3 5.18 5.03 4.8 ...  
## $ social\_clubs\_per\_10k : num [1:2955] 12.65 9.59 9.35 9.04 6.74 ...  
## $ air\_polution\_metric : num [1:2955] 10 7.6 9.4 9.8 9.6 9.3 9.1 9.7 9.8 9.5 ...  
## $ water\_quality : num [1:2955] 0 1 1 0 0 0 0 0 0 0 ...  
## $ pct\_high\_housing\_costs : num [1:2955] 0.1264 0.1056 0.1346 0.0799 0.0738 ...  
## $ pct\_overcrowded\_hh : num [1:2955] 0.0112 0.0129 0.0385 0.0116 0.018 ...  
## $ pct\_30\_min\_plus\_commute : num [1:2955] 0.416 0.376 0.365 0.551 0.595 0.494 0.347 0.3 0.281 0.456 ...  
## $ life\_expectancy\_years : num [1:2955] 76.6 77.7 72.9 73.6 74.2 ...  
## $ school\_funding\_gap : num [1:2955] -2077 343 -13560 -2660 -889 ...  
## $ pct\_voters : num [1:2955] 0.662 0.653 0.54 0.546 0.642 ...  
## $ pct\_home\_owner : num [1:2955] 16227 67242 5654 5580 16865 ...  
## $ pct\_65\_plus : num [1:2955] 0.16 0.215 0.2 0.167 0.187 ...  
## $ pct\_rural\_population : num [1:2955] 0.42 0.423 0.678 0.684 0.9 ...  
## $ response : Factor w/ 2 levels "better","worse": 2 1 2 2 2 2 2 2 2 2 ...  
## - attr(\*, "na.action")= 'omit' Named int [1:187] 68 69 70 71 72 73 74 75 76 77 ...  
## ..- attr(\*, "names")= chr [1:187] "68" "69" "70" "71" ...

summary(qol\_data)

## fips\_code state county region   
## Min. : 1001 Texas : 234 Washington County: 30 Midwest :1018   
## 1st Qu.:18182 Georgia : 158 Jefferson County : 25 Northeast: 199   
## Median :29099 Kentucky: 120 Franklin County : 23 South :1354   
## Mean :30172 Missouri: 114 Lincoln County : 23 West : 384   
## 3rd Qu.:44002 Illinois: 102 Jackson County : 22   
## Max. :56045 Kansas : 102 Madison County : 19   
## (Other) :2125 (Other) :2813   
## average\_hh\_size pct\_male pct\_native\_american pct\_asian   
## Min. :1.840 Min. :41.99 Min. : 0.000 Min. : 0.000   
## 1st Qu.:2.330 1st Qu.:48.90 1st Qu.: 0.150 1st Qu.: 0.310   
## Median :2.460 Median :49.62 Median : 0.330 Median : 0.640   
## Mean :2.492 Mean :50.06 Mean : 1.632 Mean : 1.273   
## 3rd Qu.:2.610 3rd Qu.:50.57 3rd Qu.: 0.810 3rd Qu.: 1.290   
## Max. :4.350 Max. :69.54 Max. :87.310 Max. :31.250   
##   
## pct\_black pct\_hispanic pct\_other\_race pct\_white   
## Min. : 0.000 Min. : 0.000 Min. : 0.000 Min. : 9.35   
## 1st Qu.: 0.700 1st Qu.: 2.320 1st Qu.: 0.410 1st Qu.:75.23   
## Median : 2.390 Median : 4.350 Median : 1.050 Median :88.22   
## Mean : 9.076 Mean : 9.572 Mean : 2.211 Mean :82.30   
## 3rd Qu.:10.295 3rd Qu.: 9.875 3rd Qu.: 2.515 3rd Qu.:94.06   
## Max. :87.790 Max. :98.900 Max. :54.700 Max. :99.90   
##   
## pct\_single\_parent pct\_hh\_other\_computer pct\_hh\_internet pct\_employed   
## Min. : 1.25 Min. : 0.000 Min. :41.38 Min. : 69.61   
## 1st Qu.:23.19 1st Qu.: 1.295 1st Qu.:74.60 1st Qu.: 93.67   
## Median :29.01 Median : 1.830 Median :80.13 Median : 95.10   
## Mean :29.99 Mean : 2.110 Mean :78.98 Mean : 94.79   
## 3rd Qu.:35.22 3rd Qu.: 2.470 3rd Qu.:84.43 3rd Qu.: 96.32   
## Max. :93.95 Max. :17.850 Max. :96.81 Max. :100.00   
##   
## pct\_hh\_inc\_99999 pct\_w\_medicare clinical\_nurse\_pt dentist\_pt   
## Min. :13.50 Min. : 1.750 Min. :0.00000 Min. :0.0000   
## 1st Qu.:28.61 1st Qu.: 5.020 1st Qu.:0.00000 1st Qu.:0.2600   
## Median :31.49 Median : 6.190 Median :0.00000 Median :0.4200   
## Mean :31.13 Mean : 6.494 Mean :0.01304 Mean :0.4561   
## 3rd Qu.:33.94 3rd Qu.: 7.555 3rd Qu.:0.02000 3rd Qu.:0.6100   
## Max. :47.18 Max. :19.440 Max. :0.41000 Max. :7.4900   
##   
## pa\_pt mental\_health\_faciliy\_pt population\_density days\_over\_90\_f   
## Min. : 0.0000 Min. :0.00000 Min. : 0.44 Min. : 0.00   
## 1st Qu.: 0.0800 1st Qu.:0.00000 1st Qu.: 18.75 1st Qu.: 25.00   
## Median : 0.2300 Median :0.03680 Median : 45.70 Median : 55.00   
## Mean : 0.3117 Mean :0.05371 Mean : 213.44 Mean : 55.98   
## 3rd Qu.: 0.4300 3rd Qu.:0.07135 3rd Qu.: 115.72 3rd Qu.: 87.00   
## Max. :13.1400 Max. :1.01270 Max. :71895.54 Max. :144.00   
##   
## median\_hh\_income.x median\_er\_dist median\_trauma\_center\_dist  
## Min. : 25997 Min. : 0.130 Min. : 0.13   
## 1st Qu.: 47731 1st Qu.: 2.930 1st Qu.: 6.59   
## Median : 55010 Median : 4.970 Median : 18.13   
## Mean : 57130 Mean : 6.739 Mean : 20.56   
## 3rd Qu.: 63763 3rd Qu.: 8.235 3rd Qu.: 29.30   
## Max. :132509 Max. :61.450 Max. :136.88   
##   
## median\_pediatric\_icu\_dist median\_health\_clinic\_dist  
## Min. : 0.77 Min. : 0.130   
## 1st Qu.: 20.32 1st Qu.: 2.060   
## Median : 33.60 Median : 3.400   
## Mean : 37.81 Mean : 4.772   
## 3rd Qu.: 50.54 3rd Qu.: 5.470   
## Max. :172.30 Max. :57.560   
##   
## median\_drug\_alcohol\_care\_dist percent\_grandparents\_as\_guardians  
## Min. : 0.61 Min. : 0.000   
## 1st Qu.: 8.00 1st Qu.: 2.546   
## Median : 19.84 Median : 4.255   
## Mean : 23.08 Mean : 5.156   
## 3rd Qu.: 31.84 3rd Qu.: 6.841   
## Max. :148.80 Max. :28.906   
##   
## pct\_poor\_to\_fair\_health pct\_adult\_smokers pct\_obese\_adults pct\_binge\_drinkers  
## Min. :0.0650 Min. :0.0670 Min. :0.1760 Min. :0.08195   
## 1st Qu.:0.1270 1st Qu.:0.1760 1st Qu.:0.3380 1st Qu.:0.16755   
## Median :0.1540 Median :0.2000 Median :0.3680 Median :0.18814   
## Mean :0.1613 Mean :0.2016 Mean :0.3637 Mean :0.19032   
## 3rd Qu.:0.1900 3rd Qu.:0.2270 3rd Qu.:0.3930 3rd Qu.:0.21273   
## Max. :0.3680 Max. :0.4110 Max. :0.5320 Max. :0.28928   
##   
## pct\_under\_65\_no\_health\_insurance pct\_highschool\_diploma inequality\_ratio  
## Min. :0.02278 Min. :0.4967 Min. : 2.773   
## 1st Qu.:0.07989 1st Qu.:0.8462 1st Qu.: 4.002   
## Median :0.10691 Median :0.8914 Median : 4.409   
## Mean :0.11827 Mean :0.8785 Mean : 4.537   
## 3rd Qu.:0.14812 3rd Qu.:0.9215 3rd Qu.: 4.937   
## Max. :0.37345 Max. :0.9862 Max. :11.128   
##   
## social\_clubs\_per\_10k air\_polution\_metric water\_quality   
## Min. : 0.000 Min. : 0.900 Min. :0.0000   
## 1st Qu.: 8.087 1st Qu.: 6.600 1st Qu.:0.0000   
## Median :10.777 Median : 7.800 Median :0.0000   
## Mean :11.390 Mean : 7.615 Mean :0.3425   
## 3rd Qu.:14.000 3rd Qu.: 8.900 3rd Qu.:1.0000   
## Max. :48.860 Max. :15.600 Max. :1.0000   
##   
## pct\_high\_housing\_costs pct\_overcrowded\_hh pct\_30\_min\_plus\_commute  
## Min. :0.02103 Min. :0.00000 Min. :0.0000   
## 1st Qu.:0.07982 1st Qu.:0.01248 1st Qu.:0.2360   
## Median :0.09764 Median :0.01878 Median :0.3250   
## Mean :0.10150 Mean :0.02312 Mean :0.3311   
## 3rd Qu.:0.11909 3rd Qu.:0.02824 3rd Qu.:0.4185   
## Max. :0.24733 Max. :0.15427 Max. :0.7840   
##   
## life\_expectancy\_years school\_funding\_gap pct\_voters pct\_home\_owner   
## Min. : 64.11 Min. :-18852.8 Min. :0.1942 Min. : 371   
## 1st Qu.: 74.91 1st Qu.: -2420.8 1st Qu.:0.5883 1st Qu.: 3411   
## Median : 76.89 Median : 441.6 Median :0.6554 Median : 7577   
## Mean : 76.84 Mean : 247.0 Mean :0.6530 Mean : 26068   
## 3rd Qu.: 78.82 3rd Qu.: 2866.0 3rd Qu.:0.7215 3rd Qu.: 19303   
## Max. :103.31 Max. : 27719.2 Max. :1.0000 Max. :1545929   
##   
## pct\_65\_plus pct\_rural\_population response   
## Min. :0.05073 Min. :0.0000 better:1457   
## 1st Qu.:0.17014 1st Qu.:0.3392 worse :1498   
## Median :0.19606 Median :0.5891   
## Mean :0.19983 Mean :0.5831   
## 3rd Qu.:0.22408 3rd Qu.:0.8382   
## Max. :0.58171 Max. :1.0000   
##

*Create groups of interest*

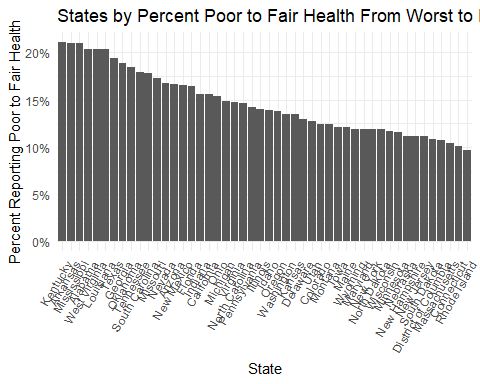
# qol dataset grouped by median values  
qol\_state\_median <- qol\_data %>%  
 group\_by(state) %>%  
 summarize(across(where(is.numeric), median, na.rm = TRUE))

## Warning: There was 1 warning in `summarize()`.  
## ℹ In argument: `across(where(is.numeric), median, na.rm = TRUE)`.  
## ℹ In group 1: `state = Alabama`.  
## Caused by warning:  
## ! The `...` argument of `across()` is deprecated as of dplyr 1.1.0.  
## Supply arguments directly to `.fns` through an anonymous function instead.  
##   
## # Previously  
## across(a:b, mean, na.rm = TRUE)  
##   
## # Now  
## across(a:b, \(x) mean(x, na.rm = TRUE))

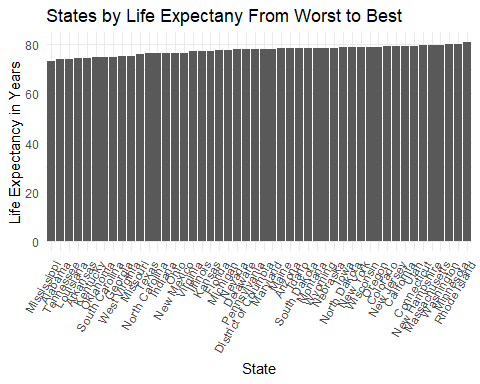
# qol dataset grouped by mean values  
qol\_state\_mean <- qol\_data %>%  
 group\_by(state) %>%  
 summarize(across(where(is.numeric), mean, na.rm = TRUE))

*Explore state distributions*

# reorder states by median pct\_poor\_to\_fair\_health  
qol\_state\_median <- qol\_state\_median %>%  
 mutate(state = fct\_reorder(state, pct\_poor\_to\_fair\_health, .desc = TRUE))  
  
# create the bar plot with pct\_poor\_to\_fair\_health vs state  
ggplot(data = qol\_state\_median,  
 aes(x = state, y = pct\_poor\_to\_fair\_health)) +  
 geom\_bar(stat = "identity") +  
 scale\_y\_continuous(labels = percent\_format(scale = 100)) +  
 labs(title = "States by Percent Poor to Fair Health From Worst to Best",  
 x = "State",   
 y = "Percent Reporting Poor to Fair Health") +  
 theme\_minimal() +  
 theme(axis.text.x = element\_text(angle = 60, hjust = 1))

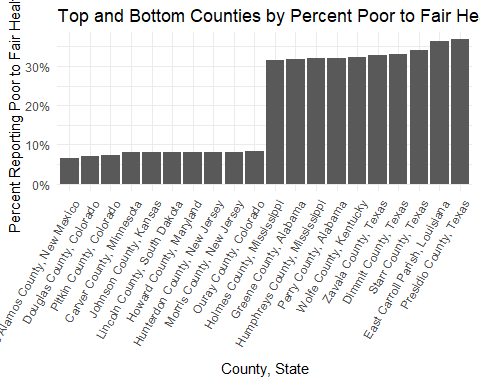


# reorder states by median life expectancy  
qol\_state\_median <- qol\_state\_median %>%  
 mutate(state = fct\_reorder(state, life\_expectancy\_years, .desc = FALSE))  
  
# create the bar plot with life expectancy vs state  
ggplot(data = qol\_state\_median,  
 aes(x = state, y = life\_expectancy\_years)) +  
 geom\_bar(stat = "identity") +  
 labs(title = "States by Life Expectany From Worst to Best",  
 x = "State",   
 y = "Life Expectancy in Years") +  
 theme\_minimal() +  
 theme(axis.text.x = element\_text(angle = 60, hjust = 1))

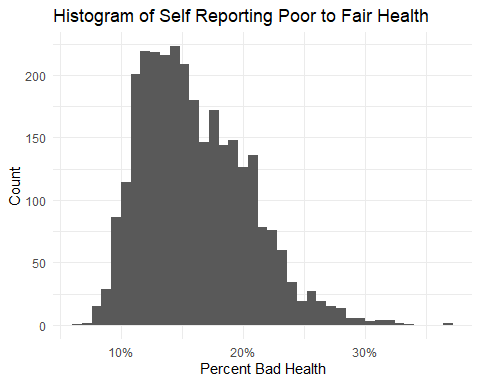


*County response distribution*

# Remove rows with missing values in pct\_poor\_to\_fair\_health  
#qol\_data\_clean <- qol\_data %>%  
# filter(!is.na(pct\_poor\_to\_fair\_health))  
  
# Arrange qol\_data by pct\_poor\_to\_fair\_health  
qol\_data\_sorted <- qol\_data %>%  
 arrange(pct\_poor\_to\_fair\_health)  
  
# Select top 10 and bottom 10 counties  
top\_bottom\_counties <- qol\_data\_sorted %>%  
 slice(c(1:10, (n() - 9):n())) # Select first 10 and last 10 rows  
  
# Plotting the bar chart with formatted labels  
ggplot(top\_bottom\_counties, aes(x = reorder(paste(county, state, sep = ", "), pct\_poor\_to\_fair\_health), y = pct\_poor\_to\_fair\_health)) +  
 geom\_bar(stat = "identity") +  
 scale\_y\_continuous(labels = scales::percent\_format(scale = 100)) +  
 labs(title = "Top and Bottom Counties by Percent Poor to Fair Health",  
 x = "County, State",  
 y = "Percent Reporting Poor to Fair Health") +  
 theme\_minimal() +  
 theme(axis.text.x = element\_text(angle = 60, hjust = 1))



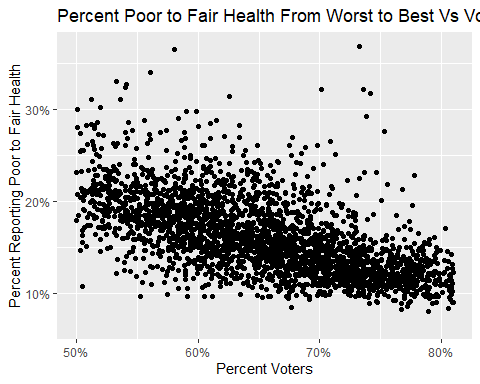
ggplot(data = qol\_data,  
 mapping = aes(x = pct\_poor\_to\_fair\_health)) +  
 geom\_histogram(binwidth = 0.008) +  
 scale\_x\_continuous(labels = percent\_format(scale = 100)) +  
 labs(x = "Percent Bad Health",  
 y = "Count",  
 title = "Histogram of Self Reporting Poor to Fair Health") +  
 theme\_minimal()



*Exploring points of interest*

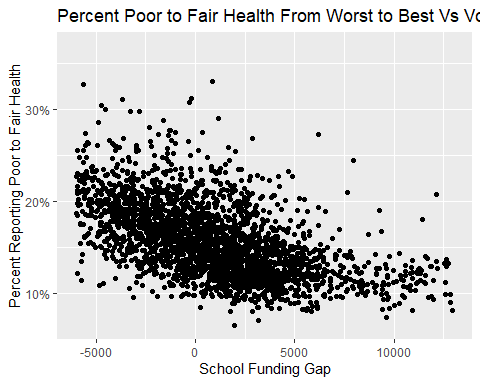
# Create the scatter plot with x-axis limit, percentage formatting, and state labels  
ggplot(data = qol\_data,  
 aes(x = pct\_voters, y = pct\_poor\_to\_fair\_health)) +  
 geom\_point() +  
 #geom\_text(aes(label = state), hjust = 1.2, vjust = 0.5, size = 2) + # Add state labels  
 scale\_y\_continuous(labels = percent\_format(scale = 100)) +  
 scale\_x\_continuous(labels = percent\_format(scale = 100), limits = c(0.5, 0.81)) +  
 labs(title = "Percent Poor to Fair Health From Worst to Best Vs Voters",  
 x = "Percent Voters",   
 y = "Percent Reporting Poor to Fair Health")

## Warning: Removed 300 rows containing missing values or values outside the scale range  
## (`geom\_point()`).

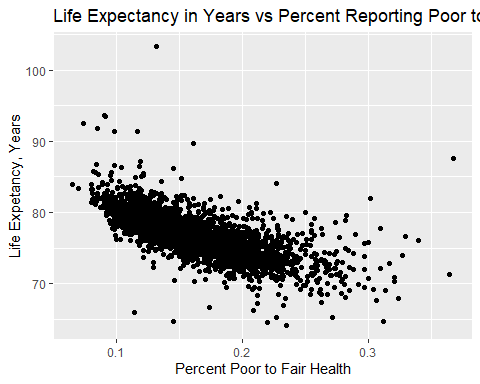


# Create the scatter plot with x-axis limit, percentage formatting, and state labels  
ggplot(data = qol\_data,  
 aes(x = school\_funding\_gap, y = pct\_poor\_to\_fair\_health)) +  
 geom\_point() +  
 # geom\_text(aes(label = state), hjust = 1.2, vjust = 0.5, size = 2) + # Add state labels  
 scale\_y\_continuous(labels = percent\_format(scale = 100)) +  
 scale\_x\_continuous(limits = c(-6000, 13000)) +  
 labs(title = "Percent Poor to Fair Health From Worst to Best Vs Voters",  
 x = "School Funding Gap",   
 y = "Percent Reporting Poor to Fair Health")

## Warning: Removed 273 rows containing missing values or values outside the scale range  
## (`geom\_point()`).



# Create the scatter plot with x-axis limit, percentage formatting, and state labels  
ggplot(data = qol\_data,  
 aes(x = pct\_poor\_to\_fair\_health, y = life\_expectancy\_years)) +  
 geom\_point() +  
 # scale\_y\_continuous() +  
 # scale\_x\_continuous(labels = percent\_format(scale = 100), limits = c(0.42,0.80)) +  
 labs(title = "Life Expectancy in Years vs Percent Reporting Poor to Fair Health",  
 x = "Percent Poor to Fair Health",   
 y = "Life Expetancy, Years")

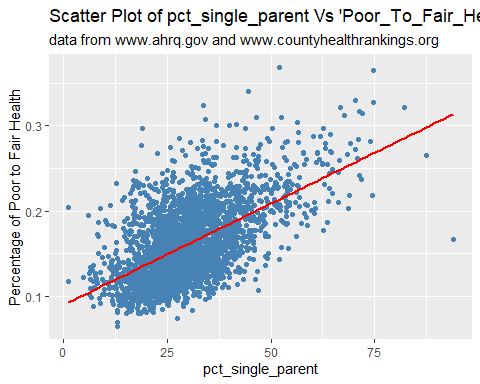


*Exploring community features*

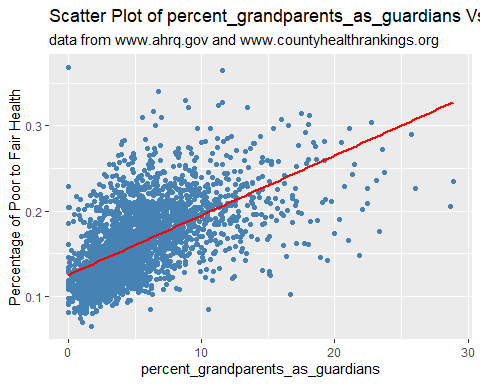
# Comparing important features from the "community aspect domain" of SDOH with the response variable "Percentage of adults reporting poor to fair health per county  
  
# Create a list of features  
features <- c("pct\_single\_parent", "percent\_grandparents\_as\_guardians",   
 "pct\_adult\_smokers", "pct\_obese\_adults", "pct\_binge\_drinkers",   
 "social\_clubs\_per\_10k", "pct\_overcrowded\_hh", "average\_hh\_size" )  
  
# Create a plot for each feature  
for (feature in features) {  
 print(  
 ggplot(qol\_data, aes\_string(x = feature, y = "pct\_poor\_to\_fair\_health")) +  
 geom\_point(color = "steelblue") +  
 geom\_smooth(method = "lm", se = FALSE, color = "red") +  
 labs(title = paste("Scatter Plot of", feature, "Vs 'Poor\_To\_Fair\_Health' Reported Per County"),  
 subtitle = "data from www.ahrq.gov and www.countyhealthrankings.org ",  
 x = feature,  
 y = "Percentage of Poor to Fair Health")  
 )  
}

## Warning: `aes\_string()` was deprecated in ggplot2 3.0.0.  
## ℹ Please use tidy evaluation idioms with `aes()`.  
## ℹ See also `vignette("ggplot2-in-packages")` for more information.  
## This warning is displayed once every 8 hours.  
## Call `lifecycle::last\_lifecycle\_warnings()` to see where this warning was  
## generated.

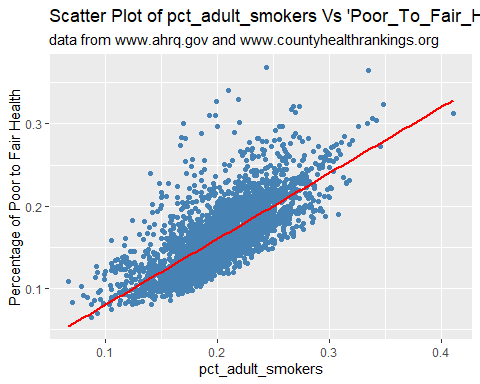
## `geom\_smooth()` using formula = 'y ~ x'



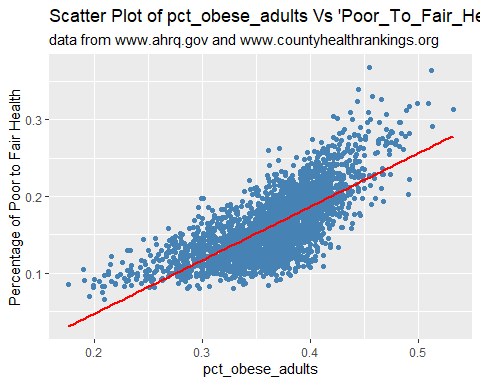
## `geom\_smooth()` using formula = 'y ~ x'



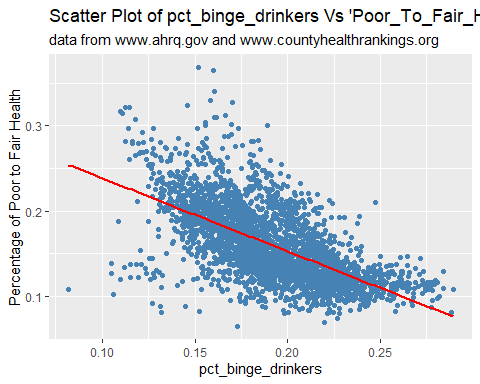
## `geom\_smooth()` using formula = 'y ~ x'



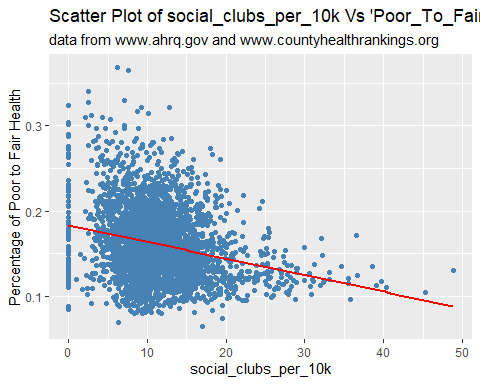
## `geom\_smooth()` using formula = 'y ~ x'



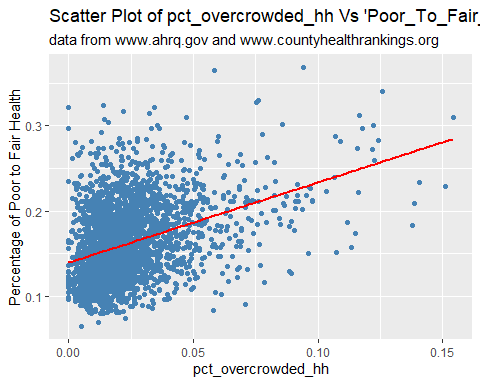
## `geom\_smooth()` using formula = 'y ~ x'



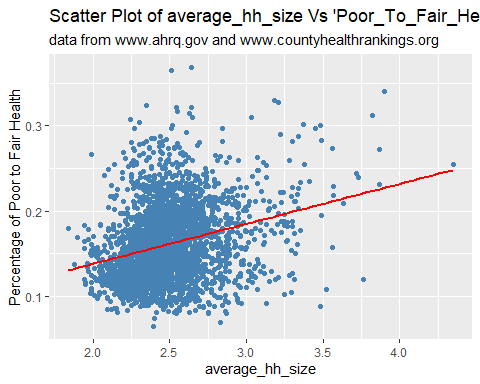
## `geom\_smooth()` using formula = 'y ~ x'



## `geom\_smooth()` using formula = 'y ~ x'



## `geom\_smooth()` using formula = 'y ~ x'



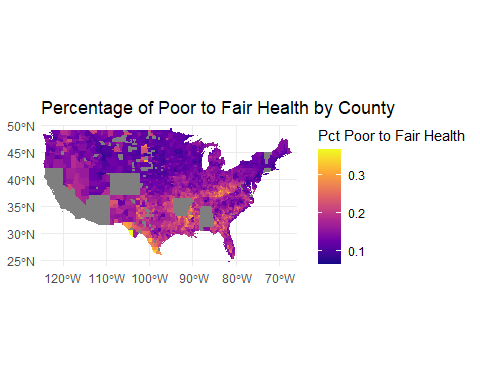
Exploring the relationship between median household income and health status in US counties along geographical lines by creating heat maps. UO

# Load US counties shapefile  
counties <- counties(cb = TRUE)

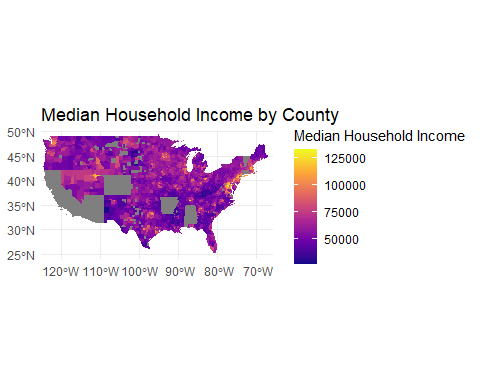
## Retrieving data for the year 2022

## | | | 0% | | | 1% | |= | 1% | |= | 2% | |== | 2% | |== | 3% | |=== | 4% | |=== | 5% | |==== | 5% | |==== | 6% | |===== | 7% | |===== | 8% | |====== | 8% | |====== | 9% | |======= | 10% | |======= | 11% | |======== | 12% | |========= | 12% | |========= | 13% | |========== | 15% | |============ | 17% | |============= | 18% | |============= | 19% | |============== | 19% | |============== | 20% | |=============== | 22% | |================ | 23% | |================= | 24% | |================= | 25% | |================== | 25% | |================== | 26% | |=================== | 27% | |=================== | 28% | |==================== | 28% | |===================== | 30% | |====================== | 31% | |====================== | 32% | |======================= | 33% | |======================== | 34% | |======================== | 35% | |========================= | 36% | |========================== | 37% | |=========================== | 39% | |============================ | 40% | |============================ | 41% | |============================= | 41% | |============================== | 42% | |=============================== | 44% | |================================ | 45% | |================================= | 47% | |================================== | 49% | |=================================== | 50% | |==================================== | 51% | |===================================== | 53% | |====================================== | 54% | |======================================= | 56% | |======================================== | 57% | |========================================= | 58% | |========================================== | 59% | |========================================== | 61% | |=========================================== | 61% | |=========================================== | 62% | |============================================ | 62% | |============================================ | 63% | |============================================= | 64% | |============================================== | 65% | |============================================== | 66% | |=============================================== | 67% | |================================================ | 69% | |================================================= | 71% | |================================================== | 72% | |=================================================== | 73% | |==================================================== | 74% | |==================================================== | 75% | |===================================================== | 76% | |====================================================== | 77% | |====================================================== | 78% | |======================================================= | 78% | |======================================================= | 79% | |======================================================== | 80% | |========================================================= | 81% | |========================================================== | 83% | |=========================================================== | 84% | |=========================================================== | 85% | |============================================================ | 86% | |============================================================= | 87% | |============================================================== | 88% | |=============================================================== | 90% | |================================================================ | 92% | |================================================================= | 92% | |================================================================== | 95% | |=================================================================== | 96% | |==================================================================== | 97% | |==================================================================== | 98% | |===================================================================== | 98% | |======================================================================| 99% | |======================================================================| 100%

# Ensure fips\_code is a character  
qol\_data$fips\_code <- as.character(qol\_data$fips\_code)  
  
# Merge shapefile with qol\_data  
counties <- counties %>%  
 left\_join(qol\_data, by = c("GEOID" = "fips\_code"))  
  
# Set plot size  
options(repr.plot.width = 10, repr.plot.height = 8)  
  
# Create map for Percentage of Poor to Fair Health  
ggplot(data = counties) +  
 geom\_sf(aes(fill = pct\_poor\_to\_fair\_health), color = NA) +  
 scale\_fill\_viridis\_c(option = "plasma") +  
 labs(title = "Percentage of Poor to Fair Health by County",  
 fill = "Pct Poor to Fair Health") +  
 coord\_sf(xlim = c(-125, -66), ylim = c(24, 50), expand = FALSE) +  
 theme\_minimal()

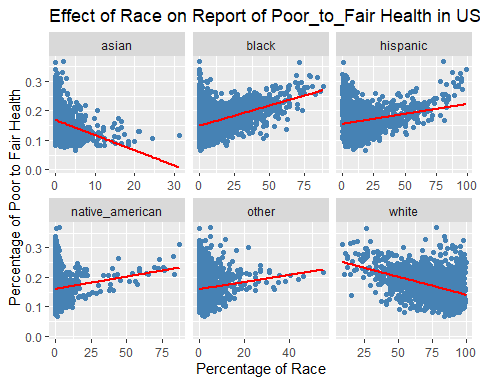


# Create map for Median Household income  
ggplot(data = counties) +  
 geom\_sf(aes(fill = median\_hh\_income.x), color = NA) +  
 scale\_fill\_viridis\_c(option = "plasma") +  
 labs(title = "Median Household Income by County",  
 fill = "Median Household Income") +  
 coord\_sf(xlim = c(-125, -66), ylim = c(24, 50), expand = FALSE) +  
 theme\_minimal()



# Create a list of race variables  
race\_vars <- c("pct\_native\_american", "pct\_asian", "pct\_black", "pct\_hispanic", "pct\_other\_race", "pct\_white")  
  
qol\_data\_long <- qol\_data %>%  
 pivot\_longer(  
 cols = all\_of(race\_vars),  
 names\_to = "race",  
 values\_to = "percentage"  
 ) %>%  
 mutate(race = case\_when(  
 race == "pct\_native\_american" ~ "native\_american",  
 race == "pct\_asian" ~ "asian",  
 race == "pct\_black" ~ "black",  
 race == "pct\_hispanic" ~ "hispanic",  
 race == "pct\_other\_race" ~ "other",  
 race == "pct\_white" ~ "white",  
 TRUE ~ race  
 ))  
  
  
# Create faceted plot  
ggplot(qol\_data\_long, aes(x = percentage, y = pct\_poor\_to\_fair\_health)) +  
 geom\_point(color = "steelblue") +  
 geom\_smooth(method = "lm", se = FALSE, color = "red") +  
 facet\_wrap(~race, scales = "free\_x") +  
 labs(title = "Effect of Race on Report of Poor\_to\_Fair Health in US Counties",  
 x = "Percentage of Race",  
 y = "Percentage of Poor to Fair Health")

## `geom\_smooth()` using formula = 'y ~ x'



*Exploring education, economic, and local enviroment features*

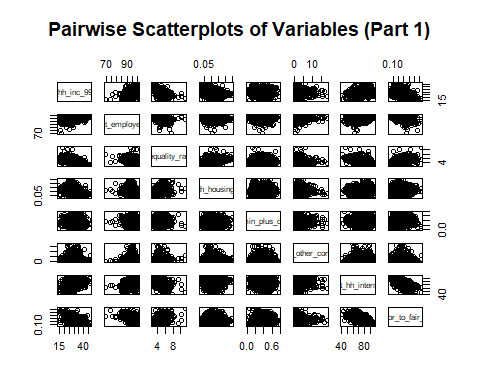
data\_mg <- qol\_data %>%  
 select("pct\_hh\_inc\_99999", "pct\_employed", "inequality\_ratio", "pct\_high\_housing\_costs", "pct\_30\_min\_plus\_commute", "pct\_hh\_other\_computer", "pct\_hh\_internet", "median\_hh\_income.x", "pct\_highschool\_diploma", "school\_funding\_gap", "population\_density", "days\_over\_90\_f", "air\_polution\_metric", "water\_quality", "pct\_poor\_to\_fair\_health")  
  
data\_mg <- na.omit(data\_mg)  
  
summary(data\_mg)

## pct\_hh\_inc\_99999 pct\_employed inequality\_ratio pct\_high\_housing\_costs  
## Min. :13.50 Min. : 69.61 Min. : 2.773 Min. :0.02103   
## 1st Qu.:28.61 1st Qu.: 93.67 1st Qu.: 4.002 1st Qu.:0.07982   
## Median :31.49 Median : 95.10 Median : 4.409 Median :0.09764   
## Mean :31.13 Mean : 94.79 Mean : 4.537 Mean :0.10150   
## 3rd Qu.:33.94 3rd Qu.: 96.32 3rd Qu.: 4.937 3rd Qu.:0.11909   
## Max. :47.18 Max. :100.00 Max. :11.128 Max. :0.24733   
## pct\_30\_min\_plus\_commute pct\_hh\_other\_computer pct\_hh\_internet  
## Min. :0.0000 Min. : 0.000 Min. :41.38   
## 1st Qu.:0.2360 1st Qu.: 1.295 1st Qu.:74.60   
## Median :0.3250 Median : 1.830 Median :80.13   
## Mean :0.3311 Mean : 2.110 Mean :78.98   
## 3rd Qu.:0.4185 3rd Qu.: 2.470 3rd Qu.:84.43   
## Max. :0.7840 Max. :17.850 Max. :96.81   
## median\_hh\_income.x pct\_highschool\_diploma school\_funding\_gap  
## Min. : 25997 Min. :0.4967 Min. :-18852.8   
## 1st Qu.: 47731 1st Qu.:0.8462 1st Qu.: -2420.8   
## Median : 55010 Median :0.8914 Median : 441.6   
## Mean : 57130 Mean :0.8785 Mean : 247.0   
## 3rd Qu.: 63763 3rd Qu.:0.9215 3rd Qu.: 2866.0   
## Max. :132509 Max. :0.9862 Max. : 27719.2   
## population\_density days\_over\_90\_f air\_polution\_metric water\_quality   
## Min. : 0.44 Min. : 0.00 Min. : 0.900 Min. :0.0000   
## 1st Qu.: 18.75 1st Qu.: 25.00 1st Qu.: 6.600 1st Qu.:0.0000   
## Median : 45.70 Median : 55.00 Median : 7.800 Median :0.0000   
## Mean : 213.44 Mean : 55.98 Mean : 7.615 Mean :0.3425   
## 3rd Qu.: 115.72 3rd Qu.: 87.00 3rd Qu.: 8.900 3rd Qu.:1.0000   
## Max. :71895.54 Max. :144.00 Max. :15.600 Max. :1.0000   
## pct\_poor\_to\_fair\_health  
## Min. :0.0650   
## 1st Qu.:0.1270   
## Median :0.1540   
## Mean :0.1613   
## 3rd Qu.:0.1900   
## Max. :0.3680

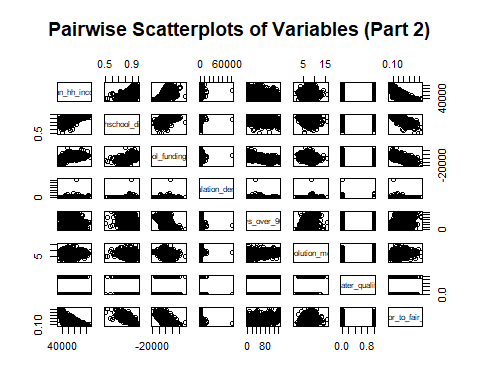
variables <- c(  
 "pct\_hh\_inc\_99999",  
 "pct\_employed",  
 "inequality\_ratio",  
 "pct\_high\_housing\_costs",  
 "pct\_30\_min\_plus\_commute",  
 "pct\_hh\_other\_computer",  
 "pct\_hh\_internet",  
 "median\_hh\_income.x",  
 "pct\_highschool\_diploma",  
 "school\_funding\_gap",  
 "population\_density",  
 "days\_over\_90\_f",  
 "air\_polution\_metric",  
 "water\_quality",  
 "pct\_poor\_to\_fair\_health"  
)  
  
mg\_sum\_stats <- function(data, vars) {  
 summary\_stats <- data %>%  
 select(all\_of(vars)) %>%  
 summarise(across(everything(), list(  
 mean = ~mean(. , na.rm = TRUE),  
 median = ~median(. , na.rm = TRUE),  
 sd = ~sd(. , na.rm = TRUE),  
 min = ~min(. , na.rm = TRUE),  
 max = ~max(. , na.rm = TRUE)  
 )))  
 return(summary\_stats)  
}  
  
summary\_stats <- mg\_sum\_stats(data\_mg, variables)  
  
summary\_matrix <- matrix(ncol = length(variables), nrow = 5)  
colnames(summary\_matrix) <- variables  
rownames(summary\_matrix) <- c("Mean", "Median", "sd", "Min", "Max")  
  
for (i in 1:length(variables)) {  
 summary\_matrix[1, i] <- summary\_stats[[paste0(variables[i], "\_mean")]]  
 summary\_matrix[2, i] <- summary\_stats[[paste0(variables[i], "\_median")]]  
 summary\_matrix[3, i] <- summary\_stats[[paste0(variables[i], "\_sd")]]  
 summary\_matrix[4, i] <- summary\_stats[[paste0(variables[i], "\_min")]]  
 summary\_matrix[5, i] <- summary\_stats[[paste0(variables[i], "\_max")]]  
}  
  
mg\_summary\_matrix <- round(summary\_matrix, 3)  
print(mg\_summary\_matrix)

## pct\_hh\_inc\_99999 pct\_employed inequality\_ratio pct\_high\_housing\_costs  
## Mean 31.129 94.787 4.537 0.101  
## Median 31.490 95.100 4.409 0.098  
## sd 4.245 2.453 0.787 0.032  
## Min 13.500 69.610 2.773 0.021  
## Max 47.180 100.000 11.128 0.247  
## pct\_30\_min\_plus\_commute pct\_hh\_other\_computer pct\_hh\_internet  
## Mean 0.331 2.11 78.976  
## Median 0.325 1.83 80.130  
## sd 0.125 1.57 8.033  
## Min 0.000 0.00 41.380  
## Max 0.784 17.85 96.810  
## median\_hh\_income.x pct\_highschool\_diploma school\_funding\_gap  
## Mean 57130.43 0.878 247.028  
## Median 55010.00 0.891 441.583  
## sd 13978.53 0.058 4726.185  
## Min 25997.00 0.497 -18852.820  
## Max 132509.00 0.986 27719.240  
## population\_density days\_over\_90\_f air\_polution\_metric water\_quality  
## Mean 213.439 55.982 7.615 0.342  
## Median 45.700 55.000 7.800 0.000  
## sd 1480.657 38.088 1.672 0.475  
## Min 0.440 0.000 0.900 0.000  
## Max 71895.540 144.000 15.600 1.000  
## pct\_poor\_to\_fair\_health  
## Mean 0.161  
## Median 0.154  
## sd 0.044  
## Min 0.065  
## Max 0.368

data\_mg\_part1 <- data\_mg %>%  
 select("pct\_hh\_inc\_99999", "pct\_employed", "inequality\_ratio", "pct\_high\_housing\_costs", "pct\_30\_min\_plus\_commute", "pct\_hh\_other\_computer", "pct\_hh\_internet", "pct\_poor\_to\_fair\_health")  
  
data\_mg\_part2 <- data\_mg %>%  
 select("median\_hh\_income.x", "pct\_highschool\_diploma", "school\_funding\_gap", "population\_density", "days\_over\_90\_f", "air\_polution\_metric", "water\_quality", "pct\_poor\_to\_fair\_health")  
  
pairs(data\_mg\_part1, main = "Pairwise Scatterplots of Variables (Part 1)")

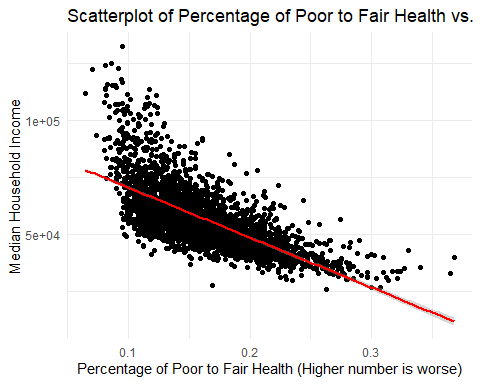


pairs(data\_mg\_part2, main = "Pairwise Scatterplots of Variables (Part 2)")



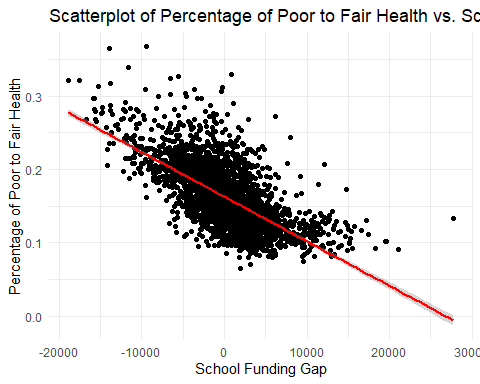
ggplot(data\_mg, aes(x = pct\_poor\_to\_fair\_health, y = median\_hh\_income.x)) +  
 geom\_point() +  
 geom\_smooth(method = "lm", col = "red") +  
 labs(title = "Scatterplot of Percentage of Poor to Fair Health vs. Median Household Income",  
 x = "Percentage of Poor to Fair Health (Higher number is worse)",  
 y = "Median Household Income") +  
 theme\_minimal()

## `geom\_smooth()` using formula = 'y ~ x'



ggplot(data\_mg, aes(x = school\_funding\_gap, y = pct\_poor\_to\_fair\_health)) +  
 geom\_point() +  
 geom\_smooth(method = "lm", col = "red") +  
 labs(title = "Scatterplot of Percentage of Poor to Fair Health vs. School Funding Gap",  
 x = "School Funding Gap",  
 y = "Percentage of Poor to Fair Health") +  
 theme\_minimal()

## `geom\_smooth()` using formula = 'y ~ x'



*Table creation with gtsummary*

# create longer table with race as a column  
qol\_data\_long <- qol\_data %>%  
 pivot\_longer(  
 cols = all\_of(race\_vars),  
 names\_to = "race",  
 values\_to = "percentage"  
 ) %>%  
 mutate(race = case\_when(  
 race == "pct\_native\_american" ~ "native\_american",  
 race == "pct\_asian" ~ "asian",  
 race == "pct\_black" ~ "black",  
 race == "pct\_hispanic" ~ "hispanic",  
 race == "pct\_other\_race" ~ "other",  
 race == "pct\_white" ~ "white",  
 TRUE ~ race  
 ))  
  
# new data frames by filtering for individual races  
qol\_data\_na <- qol\_data\_long %>%  
 filter(race == "native\_american")  
  
qol\_data\_asian <- qol\_data\_long %>%  
 filter(race == "asian")  
  
qol\_data\_black <- qol\_data\_long %>%  
 filter(race == "black")  
  
qol\_data\_hispanic <- qol\_data\_long %>%  
 filter(race == "hispanic")  
  
qol\_data\_white <- qol\_data\_long %>%  
 filter(race == "white")  
  
qol\_data\_other <- qol\_data\_long %>%  
 filter(race == "other")

df\_race\_list <- c("asian", "black", "hispanic", "native\_american", "other", "white")  
  
feature\_list <- c("pct\_poor\_to\_fair\_health", "life\_expectancy\_years", "pct\_voters")  
  
race\_stats\_calc <- function(data, race\_list, feature\_list) {  
  
 results <- list()  
   
 for (race in race\_list) {  
 filtered\_data <- data %>%  
 filter(race == !!race)  
   
 stats <- filtered\_data %>%  
 summarise(across(all\_of(feature\_list), list(  
 Mean = ~mean(.),  
 Median = ~median(.),  
 SD = ~sd(.),  
 Kurtosis = ~kurtosis(.),  
 Skewness = ~skewness(.)  
 ), .names = "{fn}\_{col}"))  
   
 results[[race]] <- stats  
 }  
   
 combined\_results <- bind\_rows(results, .id = "race")  
   
 return(combined\_results)  
}

st <- race\_stats\_calc(data = qol\_data\_long,  
 race = df\_race\_list,  
 feature = feature\_list)  
  
st

## # A tibble: 6 × 16  
## race Mean\_pct\_poor\_to\_fai…¹ Median\_pct\_poor\_to\_f…² SD\_pct\_poor\_to\_fair\_…³  
## <chr> <dbl> <dbl> <dbl>  
## 1 asian 0.161 0.154 0.0440  
## 2 black 0.161 0.154 0.0440  
## 3 hispanic 0.161 0.154 0.0440  
## 4 native\_a… 0.161 0.154 0.0440  
## 5 other 0.161 0.154 0.0440  
## 6 white 0.161 0.154 0.0440  
## # ℹ abbreviated names: ¹​Mean\_pct\_poor\_to\_fair\_health,  
## # ²​Median\_pct\_poor\_to\_fair\_health, ³​SD\_pct\_poor\_to\_fair\_health  
## # ℹ 12 more variables: Kurtosis\_pct\_poor\_to\_fair\_health <dbl>,  
## # Skewness\_pct\_poor\_to\_fair\_health <dbl>, Mean\_life\_expectancy\_years <dbl>,  
## # Median\_life\_expectancy\_years <dbl>, SD\_life\_expectancy\_years <dbl>,  
## # Kurtosis\_life\_expectancy\_years <dbl>, Skewness\_life\_expectancy\_years <dbl>,  
## # Mean\_pct\_voters <dbl>, Median\_pct\_voters <dbl>, SD\_pct\_voters <dbl>, …

# create function  
race\_stats\_calc <- function(data, race\_list, feature\_list) {  
 summary\_stats <- data %>%  
 filter(race %in% race\_list) %>%  
 group\_by(race) %>%  
 summarise(across(all\_of(feature\_list), list(  
 Mean = ~mean(.),  
 Median = ~median(.),  
 SD = ~sd(.),  
 Kurtosis = ~kurtosis(.),  
 Skewness = ~skewness(.)  
 ), .names = "{fn}\_{col}"))  
   
 return(summary\_stats)  
}

st <- race\_stats\_calc(data = qol\_data\_long,  
 race = df\_race\_list,  
 feature = feature\_list)  
  
st

## # A tibble: 6 × 16  
## race Mean\_pct\_poor\_to\_fai…¹ Median\_pct\_poor\_to\_f…² SD\_pct\_poor\_to\_fair\_…³  
## <chr> <dbl> <dbl> <dbl>  
## 1 asian 0.161 0.154 0.0440  
## 2 black 0.161 0.154 0.0440  
## 3 hispanic 0.161 0.154 0.0440  
## 4 native\_a… 0.161 0.154 0.0440  
## 5 other 0.161 0.154 0.0440  
## 6 white 0.161 0.154 0.0440  
## # ℹ abbreviated names: ¹​Mean\_pct\_poor\_to\_fair\_health,  
## # ²​Median\_pct\_poor\_to\_fair\_health, ³​SD\_pct\_poor\_to\_fair\_health  
## # ℹ 12 more variables: Kurtosis\_pct\_poor\_to\_fair\_health <dbl>,  
## # Skewness\_pct\_poor\_to\_fair\_health <dbl>, Mean\_life\_expectancy\_years <dbl>,  
## # Median\_life\_expectancy\_years <dbl>, SD\_life\_expectancy\_years <dbl>,  
## # Kurtosis\_life\_expectancy\_years <dbl>, Skewness\_life\_expectancy\_years <dbl>,  
## # Mean\_pct\_voters <dbl>, Median\_pct\_voters <dbl>, SD\_pct\_voters <dbl>, …

qol\_data\_na <- qol\_data\_na %>%   
 mutate(pct\_poor\_to\_fair\_health = pct\_poor\_to\_fair\_health \* percentage)  
  
  
native\_american <- summary(qol\_data\_na$pct\_voters)  
asian <- summary(qol\_data\_asian$pct\_voters)  
black <- summary(qol\_data\_black$pct\_voters)  
hispanic <- summary(qol\_data\_hispanic$pct\_voters)  
white <- summary(qol\_data\_white$pct\_voters)  
other <- summary(qol\_data\_other$pct\_voters)  
  
  
  
print(native\_american)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.1942 0.5883 0.6554 0.6530 0.7215 1.0000

print(black)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.1942 0.5883 0.6554 0.6530 0.7215 1.0000

print(hispanic)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.1942 0.5883 0.6554 0.6530 0.7215 1.0000

print(asian)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.1942 0.5883 0.6554 0.6530 0.7215 1.0000

print(white)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.1942 0.5883 0.6554 0.6530 0.7215 1.0000

print(other)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.1942 0.5883 0.6554 0.6530 0.7215 1.0000

table\_1 <- tbl\_summary(qol\_data,   
 include = c(pct\_hh\_inc\_99999,  
 pct\_employed,  
 inequality\_ratio,  
 pct\_high\_housing\_costs,  
 pct\_30\_min\_plus\_commute,  
 pct\_hh\_other\_computer,  
 pct\_hh\_internet,  
 median\_hh\_income.x,  
 pct\_highschool\_diploma,  
 school\_funding\_gap,  
 population\_density,  
 days\_over\_90\_f,  
 air\_polution\_metric,  
 water\_quality,  
 pct\_poor\_to\_fair\_health))  
  
table\_1

| **Characteristic** | **N = 2,955***1* |
| --- | --- |
| pct\_hh\_inc\_99999 | 31.5 (28.6, 33.9) |
| pct\_employed | 95.10 (93.67, 96.32) |
| inequality\_ratio | 4.41 (4.00, 4.94) |
| pct\_high\_housing\_costs | 0.10 (0.08, 0.12) |
| pct\_30\_min\_plus\_commute | 0.33 (0.24, 0.42) |
| pct\_hh\_other\_computer | 1.83 (1.29, 2.47) |
| pct\_hh\_internet | 80 (75, 84) |
| median\_hh\_income.x | 55,010 (47,722, 63,785) |
| pct\_highschool\_diploma | 0.89 (0.85, 0.92) |
| school\_funding\_gap | 442 (-2,426, 2,870) |
| population\_density | 46 (19, 116) |
| days\_over\_90\_f | 55 (25, 87) |
| air\_polution\_metric | 7.80 (6.60, 8.90) |
| water\_quality | 1,012 (34%) |
| pct\_poor\_to\_fair\_health | 0.15 (0.13, 0.19) |
| *1*Median (Q1, Q3); n (%) | |

# Ensure the trial dataset is loaded and available  
# trial <- your\_data\_loading\_function()  
  
# Create the summary table  
test\_table <- tbl\_summary(  
 data = qol\_data\_long,  
 include = c(pct\_poor\_to\_fair\_health, life\_expectancy\_years, pct\_voters),  
 by = race,  
 statistic = list(  
 all\_continuous() ~ "{median} ({sd})",  
 all\_dichotomous() ~ "{p}%"  
 ),  
 missing = "no"  
)  
  
# Print the summary table  
test\_table

| **Characteristic** | **asian** N = 2,955*1* | **black** N = 2,955*1* | **hispanic** N = 2,955*1* | **native\_american** N = 2,955*1* | **other** N = 2,955*1* | **white** N = 2,955*1* |
| --- | --- | --- | --- | --- | --- | --- |
| pct\_poor\_to\_fair\_health | 0.15 (0.04) | 0.15 (0.04) | 0.15 (0.04) | 0.15 (0.04) | 0.15 (0.04) | 0.15 (0.04) |
| life\_expectancy\_years | 76.89 (3.08) | 76.89 (3.08) | 76.89 (3.08) | 76.89 (3.08) | 76.89 (3.08) | 76.89 (3.08) |
| pct\_voters | 0.66 (0.10) | 0.66 (0.10) | 0.66 (0.10) | 0.66 (0.10) | 0.66 (0.10) | 0.66 (0.10) |
| *1*Median (SD) | | | | | | |

unique(qol\_data\_long$race)

## [1] "native\_american" "asian" "black" "hispanic"   
## [5] "other" "white"

# Assuming qol\_data\_long is now the correctly reshaped dataset  
test\_table <- tbl\_summary(  
 data = qol\_data\_long,  
 include = c(pct\_poor\_to\_fair\_health, life\_expectancy\_years, pct\_voters),  
 by = race,  
 statistic = list(  
 all\_continuous() ~ "{mean} ({sd}, {kurtosis}, {skewness})",  
 all\_dichotomous() ~ "{p}%"  
 ),  
 missing = "no"  
)  
  
# Print the summary table  
test\_table

| **Characteristic** | **asian** N = 2,955*1* | **black** N = 2,955*1* | **hispanic** N = 2,955*1* | **native\_american** N = 2,955*1* | **other** N = 2,955*1* | **white** N = 2,955*1* |
| --- | --- | --- | --- | --- | --- | --- |
| pct\_poor\_to\_fair\_health | 0.16 (0.04, 0.49, 0.73) | 0.16 (0.04, 0.49, 0.73) | 0.16 (0.04, 0.49, 0.73) | 0.16 (0.04, 0.49, 0.73) | 0.16 (0.04, 0.49, 0.73) | 0.16 (0.04, 0.49, 0.73) |
| life\_expectancy\_years | 76.84 (3.08, 3.40, 0.30) | 76.84 (3.08, 3.40, 0.30) | 76.84 (3.08, 3.40, 0.30) | 76.84 (3.08, 3.40, 0.30) | 76.84 (3.08, 3.40, 0.30) | 76.84 (3.08, 3.40, 0.30) |
| pct\_voters | 0.65 (0.10, 0.13, -0.08) | 0.65 (0.10, 0.13, -0.08) | 0.65 (0.10, 0.13, -0.08) | 0.65 (0.10, 0.13, -0.08) | 0.65 (0.10, 0.13, -0.08) | 0.65 (0.10, 0.13, -0.08) |
| *1*Mean (SD, kurtosis, skewness) | | | | | | |

# Assuming qol\_data\_long is your reshaped dataset  
  
# Filter the dataset for only observations where race == "white"  
  
  
test\_table2 <- tbl\_summary(  
 data = qol\_data\_white,  
 include = c(pct\_poor\_to\_fair\_health, life\_expectancy\_years, pct\_voters),  
 by = race,  
 statistic = list(  
 all\_continuous() ~ "{mean} ({sd})",  
 all\_dichotomous() ~ "{p}%"  
 ),  
 missing = "no"  
)  
  
# Print the summary table  
test\_table2

| **Characteristic** | **white** N = 2,955*1* |
| --- | --- |
| pct\_poor\_to\_fair\_health | 0.16 (0.04) |
| life\_expectancy\_years | 76.84 (3.08) |
| pct\_voters | 0.65 (0.10) |
| *1*Mean (SD) | |

test\_table2 <- tbl\_summary(  
 data = qol\_data\_black,  
 include = c(pct\_poor\_to\_fair\_health, life\_expectancy\_years, pct\_voters),  
 by = race,  
 statistic = list(  
 all\_continuous() ~ "{mean} ({sd})",  
 all\_dichotomous() ~ "{p}%"  
 ),  
 missing = "no"  
)  
  
# Print the summary table  
test\_table2

| **Characteristic** | **black** N = 2,955*1* |
| --- | --- |
| pct\_poor\_to\_fair\_health | 0.16 (0.04) |
| life\_expectancy\_years | 76.84 (3.08) |
| pct\_voters | 0.65 (0.10) |
| *1*Mean (SD) | |

# Assuming qol\_data\_long is now the correctly reshaped dataset  
test\_table <- tbl\_summary(  
 data = qol\_data\_long,  
 include = c(pct\_poor\_to\_fair\_health, life\_expectancy\_years, pct\_voters),  
 by = region,  
 statistic = list(  
 all\_continuous() ~ "{mean} ({sd}, {kurtosis}, {skewness})",  
 all\_dichotomous() ~ "{p}%"  
 ),  
 missing = "no"  
)  
  
# Print the summary table  
test\_table

| **Characteristic** | **Midwest** N = 6,108*1* | **Northeast** N = 1,194*1* | **South** N = 8,124*1* | **West** N = 2,304*1* |
| --- | --- | --- | --- | --- |
| pct\_poor\_to\_fair\_health | 0.14 (0.03, 1.90, 0.95) | 0.12 (0.02, -0.34, 0.15) | 0.19 (0.04, 0.68, 0.41) | 0.14 (0.03, 0.62, 0.60) |
| life\_expectancy\_years | 77.67 (2.60, 4.66, -0.55) | 78.75 (1.75, 0.03, 0.19) | 75.37 (2.67, 0.78, 0.30) | 78.88 (3.58, 7.90, 1.09) |
| pct\_voters | 0.68 (0.08, 0.66, -0.23) | 0.68 (0.08, 0.66, 0.25) | 0.61 (0.09, 0.24, 0.09) | 0.71 (0.10, 0.01, -0.25) |
| *1*Mean (SD, kurtosis, skewness) | | | | |

Remove features with no analytical value namely Fipscode and county, state and pct\_poor\_to\_fair\_health

qol\_data <- qol\_data %>% select(-c(fips\_code,county,state,pct\_poor\_to\_fair\_health))

###split data into training and testing set

# Split the data into training and testing sets  
set.seed(123)  
split <- sample(2, nrow(qol\_data), replace = TRUE, prob = c(0.86, 0.14))  
qol\_train <- qol\_data[split == 1, ]  
qol\_test <- qol\_data[split == 2, ]  
  
# Check the distribution of the response variable in the training and testing sets  
table(qol\_train$response)

##   
## better worse   
## 1267 1293

table(qol\_test$response)

##   
## better worse   
## 190 205

###Encode categorical features

# Create dummy variables for 'region' in training data  
dummies\_train <- dummyVars(~ region, data = qol\_train, fullRank = FALSE)  
qol\_train\_encoded <- predict(dummies\_train, newdata = qol\_train)  
qol\_train <- cbind(qol\_train, qol\_train\_encoded) %>%  
 select(-region) # Remove the original 'region' column  
  
# Create dummy variables for 'region' in test data  
dummies\_test <- dummyVars(~ region, data = qol\_test, fullRank = FALSE)  
qol\_test\_encoded <- predict(dummies\_test, newdata = qol\_test)  
qol\_test <- cbind(qol\_test, qol\_test\_encoded) %>%  
 select(-region) # Remove the original 'region' column  
  
# View the transformed training data  
print("Transformed Training Data:")

## [1] "Transformed Training Data:"

print(qol\_train)

## average\_hh\_size pct\_male pct\_native\_american pct\_asian pct\_black  
## 1 2.55 48.62 0.28 1.17 19.53  
## 2 2.56 48.51 0.69 0.93 8.77  
## 3 2.37 52.57 0.35 0.49 47.67  
## 4 2.84 54.83 0.00 1.35 68.61  
## 5 2.92 45.88 0.33 1.32 44.59  
## 6 2.42 47.65 0.24 1.10 40.00  
## 7 2.38 49.45 0.58 0.10 4.80  
## 8 2.36 47.29 0.05 0.20 42.32  
## 9 2.52 47.55 0.08 0.46 45.71  
## 10 2.53 48.16 0.15 0.25 15.32  
## 11 2.53 48.61 0.14 0.01 2.64  
## 12 2.50 48.12 0.57 0.51 16.21  
## 13 2.66 48.70 0.16 0.57 48.06  
## 14 2.57 51.41 0.30 0.00 32.26  
## 15 2.59 49.29 0.35 0.36 1.13  
## 16 2.47 49.23 0.84 1.38 20.68  
## 17 2.67 49.43 1.19 0.11 1.53  
## 18 2.58 48.31 0.30 0.92 21.13  
## 19 2.61 50.82 3.78 0.28 32.02  
## 20 2.62 48.22 0.51 0.79 16.08  
## 21 2.37 49.14 0.00 0.66 12.21  
## 22 2.85 49.49 1.03 0.86 3.93  
## 23 2.65 47.49 0.00 0.19 59.14  
## 24 2.56 48.25 0.20 0.43 26.59  
## 25 2.62 47.92 0.28 0.95 27.23  
## 26 2.51 48.92 1.08 0.42 3.69  
## 27 2.44 47.29 0.18 1.58 42.90  
## 28 2.43 49.39 0.09 0.15 11.01  
## 29 2.36 48.02 0.36 0.63 10.24  
## 30 2.61 47.94 5.97 0.12 10.68  
## 31 2.59 49.23 0.21 4.36 22.71  
## 32 2.87 49.86 0.93 1.46 13.55  
## 33 2.33 47.65 0.12 0.00 74.88  
## 34 2.14 45.54 0.08 0.20 82.24  
## 35 2.37 48.84 0.56 2.63 24.60  
## 36 2.52 46.99 0.13 0.05 51.77  
## 37 2.48 49.50 0.46 0.06 3.78  
## 38 2.71 49.36 0.39 0.64 2.94  
## 39 2.58 47.62 0.66 1.87 36.11  
## 40 2.58 48.05 1.36 0.60 42.45  
## 41 2.45 47.13 0.21 3.06 57.92  
## 42 2.53 49.28 0.42 0.55 12.68  
## 43 2.64 47.72 0.03 0.09 69.09  
## 44 2.37 47.75 0.19 0.04 40.29  
## 45 2.69 48.12 0.36 2.15 37.31  
## 46 2.57 48.53 0.44 0.22 19.03  
## 47 2.42 48.00 0.15 1.17 44.92  
## 48 2.65 49.77 0.54 0.75 9.44  
## 49 2.20 45.61 0.06 1.96 71.35  
## 50 2.42 48.23 0.35 0.54 32.28  
## 51 2.43 48.53 0.13 0.41 27.63  
## 52 2.66 48.14 0.22 1.64 32.23  
## 53 2.47 49.11 0.29 0.37 6.04  
## 54 2.78 49.51 7.49 0.18 24.25  
## 55 2.61 46.16 0.11 0.04 70.30  
## 56 2.43 49.12 0.30 0.38 0.81  
## 57 3.28 49.35 73.30 0.37 0.76  
## 58 2.34 50.91 1.16 1.89 4.08  
## 59 2.60 49.29 26.12 1.92 1.36  
## 60 2.34 49.53 16.09 0.83 0.73  
## 61 3.06 53.41 12.57 0.68 1.78  
## 62 2.84 53.48 3.85 0.40 1.85  
## 63 2.10 51.11 14.59 0.81 0.97  
## 64 2.73 49.45 1.93 4.24 5.66  
## 65 2.29 50.45 2.05 1.19 0.94  
## 66 2.95 50.13 43.89 0.47 1.06  
## 67 2.45 49.19 3.60 2.90 3.51  
## 68 2.84 51.93 4.74 1.65 4.50  
## 69 2.88 48.15 0.63 0.43 0.85  
## 70 2.24 48.84 1.36 1.02 0.68  
## 71 2.76 51.54 1.46 1.20 2.18  
## 72 2.36 47.85 0.57 0.06 25.12  
## 73 2.57 48.30 0.04 0.17 24.89  
## 74 2.20 48.57 0.50 0.41 0.19  
## 75 2.72 49.76 1.20 3.98 1.56  
## 76 2.51 49.81 1.20 1.37 0.89  
## 77 2.40 49.53 0.15 0.60 53.78  
## 78 2.39 47.39 0.20 0.64 24.21  
## 79 2.26 49.20 0.39 0.03 0.49  
## 80 2.27 49.94 0.89 0.33 0.91  
## 81 2.52 47.44 0.29 0.00 13.48  
## 82 2.58 48.06 0.23 0.81 36.16  
## 83 2.44 49.29 0.43 0.49 10.10  
## 84 2.50 48.81 0.20 1.33 15.22  
## 85 2.60 49.28 1.95 1.63 1.60  
## 86 2.51 47.57 0.18 0.75 48.60  
## 87 2.49 48.17 0.19 0.04 17.79  
## 88 2.14 48.57 0.51 0.00 43.06  
## 89 2.26 46.00 0.35 0.40 47.42  
## 90 2.66 48.61 0.36 1.15 11.50  
## 91 2.37 47.93 0.98 0.82 8.35  
## 92 2.56 49.55 0.11 0.00 2.63  
## 93 2.53 48.96 0.28 0.37 2.31  
## 94 2.52 52.46 0.28 0.23 11.28  
## 95 2.48 47.70 0.43 0.87 20.52  
## 96 2.55 52.57 0.82 0.00 1.04  
## 97 2.29 49.52 0.09 0.05 11.53  
## 98 2.33 49.39 0.29 0.98 55.78  
## 99 2.28 50.15 0.30 0.74 35.76  
## 100 2.42 49.94 0.27 0.07 1.41  
## 101 2.30 56.82 0.35 0.07 55.72  
## 102 2.30 63.77 0.55 0.00 30.25  
## 103 2.30 47.68 1.08 0.33 19.30  
## 104 2.52 49.26 0.81 1.59 1.48  
## 105 2.66 49.13 0.48 1.00 5.54  
## 106 2.37 48.43 1.03 0.58 0.69  
## 107 2.59 49.15 1.32 0.29 25.03  
## 108 2.44 48.89 0.07 0.47 34.99  
## 109 2.10 47.91 0.68 0.23 42.26  
## 110 2.38 49.93 1.09 0.38 0.35  
## 111 2.57 49.41 1.74 0.10 0.04  
## 112 2.45 47.26 0.00 0.04 42.64  
## 113 2.75 51.30 0.17 0.06 2.81  
## 114 2.37 46.98 0.05 0.00 63.49  
## 115 2.50 49.30 0.45 0.20 3.81  
## 116 2.45 48.79 0.08 0.05 3.74  
## 117 2.65 49.35 0.53 1.12 2.72  
## 118 2.13 49.16 0.12 0.17 11.62  
## 119 2.39 47.69 0.35 2.19 37.04  
## 120 2.41 50.22 0.35 0.32 0.92  
## 121 2.39 55.98 0.46 0.67 52.87  
## 122 2.65 48.89 0.28 1.20 7.66  
## 123 2.48 52.67 0.36 1.37 2.16  
## 124 2.42 49.99 3.33 0.35 0.52  
## 125 2.42 48.92 1.05 4.54 6.20  
## 126 2.96 50.68 2.68 0.48 4.64  
## 127 2.33 49.07 0.17 0.02 1.02  
## 128 2.56 49.36 0.36 0.51 0.10  
## 129 2.44 48.16 0.73 0.77 32.96  
## 130 2.27 49.35 1.28 0.13 0.62  
## 131 2.56 50.05 0.81 2.65 3.42  
## 132 2.59 48.92 0.45 0.80 4.28  
## 133 2.12 46.39 0.02 0.00 29.23  
## 134 2.70 50.59 0.39 1.22 2.09  
## 135 2.84 49.18 0.66 31.25 10.35  
## 136 2.39 54.02 0.71 0.96 2.39  
## 137 2.59 49.43 1.18 4.81 1.73  
## 138 2.67 49.99 1.13 1.89 0.98  
## 139 2.90 51.15 1.11 0.94 1.54  
## 140 2.86 48.89 0.45 17.44 8.59  
## 141 2.54 53.25 7.02 3.18 2.70  
## 142 2.58 49.79 0.69 4.79 0.83  
## 143 3.14 49.89 1.17 10.63 4.66  
## 144 2.72 51.20 2.25 3.13 0.78  
## 145 2.44 49.62 4.53 2.90 1.14  
## 146 3.73 51.28 1.17 1.44 2.61  
## 147 2.18 51.53 10.73 1.56 0.54  
## 148 3.15 51.23 0.95 4.86 5.44  
## 149 3.14 55.07 1.48 3.72 6.50  
## 150 2.26 65.50 2.59 1.54 8.87  
## 151 2.96 49.30 0.78 14.83 8.07  
## 152 3.32 48.30 1.61 2.16 3.15  
## 153 2.06 51.56 2.26 1.07 1.54  
## 154 2.48 49.49 4.35 2.00 0.49  
## 155 2.33 50.88 3.54 1.91 1.39  
## 156 2.70 53.54 2.83 4.40 0.56  
## 157 3.25 50.91 0.71 5.82 2.58  
## 158 2.78 49.83 0.69 7.57 2.07  
## 159 2.40 49.23 0.50 1.11 0.41  
## 160 3.01 49.35 0.49 21.06 1.71  
## 161 2.66 48.85 0.56 8.15 1.61  
## 162 2.21 50.14 1.86 1.23 1.48  
## 163 3.26 49.85 0.77 6.75 6.48  
## 164 3.30 49.78 0.85 7.39 8.16  
## 165 2.86 50.38 0.73 11.99 4.94  
## 166 2.51 50.59 0.84 3.74 1.72  
## 167 2.70 49.51 0.63 4.97 1.27  
## 168 2.48 49.17 2.47 3.22 1.07  
## 169 2.29 50.86 2.38 0.00 0.10  
## 170 2.24 49.77 3.87 1.26 1.54  
## 171 2.87 49.77 0.57 15.56 13.72  
## 172 2.58 48.84 0.89 4.28 1.66  
## 173 2.92 49.93 1.10 16.61 1.97  
## 174 2.57 49.63 1.35 1.70 0.65  
## 175 2.08 50.79 5.76 1.95 0.52  
## 176 2.21 51.75 1.75 1.39 1.86  
## 177 3.06 49.50 0.83 7.24 1.82  
## 178 2.82 48.45 0.65 14.44 2.60  
## 179 2.88 50.75 1.33 7.26 3.40  
## 180 3.02 50.48 1.05 3.98 3.36  
## 181 2.42 49.45 3.45 1.26 0.67  
## 182 2.66 49.58 0.69 6.23 10.96  
## 183 2.34 49.37 2.23 1.13 1.22  
## 184 2.02 50.14 1.99 0.00 0.92  
## 185 2.10 62.32 3.72 0.67 4.81  
## 186 2.46 50.31 0.51 4.88 0.90  
## 187 2.14 52.76 0.41 0.93 2.05  
## 188 2.44 47.82 0.00 1.05 0.15  
## 189 2.50 50.28 2.39 0.28 0.28  
## 190 3.20 67.49 3.35 1.31 4.97  
## 191 2.14 48.37 0.10 0.36 1.70  
## 192 2.39 50.37 0.82 0.86 1.18  
## 193 2.44 50.10 0.78 3.61 9.18  
## 194 2.83 49.99 0.39 5.09 1.49  
## 195 2.94 53.12 0.24 0.55 1.00  
## 196 2.97 50.51 1.08 1.00 0.30  
## 197 2.11 58.27 1.19 0.76 4.79  
## 198 2.72 51.05 0.49 0.82 0.52  
## 199 2.09 54.01 2.69 0.00 0.56  
## 200 2.41 53.98 0.89 0.67 0.85  
## 201 2.38 54.42 1.17 0.38 0.31  
## 202 2.16 50.94 2.82 0.03 0.12  
## 203 2.49 49.89 0.65 2.81 1.14  
## 204 2.32 51.70 0.55 0.14 0.39  
## 205 2.36 55.81 3.22 0.55 0.06  
## 206 2.54 50.33 6.38 0.77 0.55  
## 207 2.54 49.83 0.73 2.15 1.00  
## 208 2.00 52.33 4.06 0.63 1.12  
## 209 2.34 62.29 0.41 0.37 7.36  
## 210 2.56 55.18 0.91 0.82 1.47  
## 211 2.51 49.36 0.95 1.08 0.75  
## 212 2.49 51.44 0.72 0.14 0.82  
## 213 2.47 49.33 11.93 0.85 1.05  
## 214 2.30 49.05 1.14 1.18 0.79  
## 215 2.16 49.08 0.41 0.00 1.55  
## 216 2.60 52.84 0.85 0.65 0.33  
## 217 2.46 53.90 1.93 0.41 0.00  
## 218 2.40 52.95 0.08 2.29 0.48  
## 219 2.38 51.11 1.96 0.57 0.79  
## 220 2.50 49.23 3.15 0.91 2.03  
## 221 2.40 51.41 1.30 0.58 0.35  
## 222 2.34 50.20 2.91 0.07 0.07  
## 223 2.47 52.45 0.30 1.40 1.02  
## 224 2.61 53.52 0.33 0.90 0.29  
## 225 2.19 53.03 0.00 0.39 1.48  
## 226 3.03 50.47 0.56 1.68 1.23  
## 227 2.41 50.66 0.69 0.05 1.40  
## 228 2.68 48.69 0.22 5.38 11.37  
## 229 2.45 48.56 0.28 5.54 13.81  
## 230 2.38 49.44 0.17 1.94 1.72  
## 231 2.49 48.19 0.18 4.05 13.60  
## 232 2.33 50.11 0.61 4.07 5.85  
## 233 2.43 50.15 0.07 4.74 3.04  
## 234 2.44 49.48 0.42 1.37 2.54  
## 235 2.59 48.19 0.65 2.10 25.57  
## 236 2.41 48.26 0.40 1.24 11.35  
## 237 2.30 47.46 0.35 4.10 45.39  
## 238 2.48 48.26 0.33 6.06 20.14  
## 239 2.91 53.46 0.28 0.17 14.55  
## 240 2.42 49.63 0.30 2.26 10.72  
## 241 2.54 55.43 0.35 0.66 20.38  
## 242 2.49 48.90 0.27 2.38 9.87  
## 243 2.73 48.71 0.26 3.63 28.61  
## 244 2.73 55.29 1.45 0.15 13.45  
## 245 2.29 48.90 0.25 1.29 5.54  
## 246 2.25 48.67 0.28 1.77 2.73  
## 247 2.84 49.26 0.11 2.76 11.05  
## 248 2.54 49.23 0.20 1.50 6.75  
## 249 2.62 51.70 0.21 0.96 18.24  
## 250 2.73 56.27 0.09 0.44 12.14  
## 251 2.43 57.28 0.01 0.22 8.29  
## 252 2.45 49.44 0.35 3.13 21.96  
## 253 2.55 47.81 0.23 2.55 9.76  
## 254 2.43 47.61 0.33 0.17 55.64  
## 255 2.53 52.29 0.08 0.17 5.36  
## 256 2.53 55.10 4.05 0.66 13.57  
## 257 2.10 58.24 0.62 0.59 15.37  
## 258 2.55 57.96 1.01 0.76 34.19  
## 259 3.11 53.19 0.19 1.17 6.42  
## 260 3.07 53.10 1.94 0.90 11.31  
## 261 2.46 48.20 0.29 1.20 5.22  
## 262 2.40 48.49 0.13 1.48 9.48  
## 263 2.65 48.91 0.28 4.18 16.71  
## 264 2.48 54.21 1.04 0.69 6.99  
## 265 2.55 48.00 0.26 1.42 8.32  
## 266 2.27 54.63 0.71 0.49 26.56  
## 267 2.21 53.36 0.24 0.38 33.54  
## 268 3.07 60.49 0.16 0.00 15.78  
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## 270 2.58 48.97 0.17 1.66 8.28  
## 271 2.38 47.37 0.14 3.62 31.19  
## 272 2.39 48.71 0.16 0.94 8.28  
## 273 2.72 59.27 1.54 0.42 14.08  
## 274 2.38 53.75 0.11 0.64 37.97  
## 275 2.59 48.28 0.21 2.14 8.49  
## 276 2.40 47.99 0.27 1.43 12.93  
## 277 2.41 49.32 0.52 1.49 5.60  
## 278 2.95 48.62 0.19 1.60 16.92  
## 279 2.23 52.26 0.11 1.30 7.56  
## 280 2.54 49.62 0.57 0.97 5.69  
## 281 2.54 50.80 0.27 3.24 9.78  
## 282 2.63 53.87 0.56 0.94 8.70  
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## 285 2.30 47.99 0.25 3.45 10.28  
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## 287 2.43 49.18 0.37 0.60 16.30  
## 288 2.77 48.64 0.28 2.74 5.45  
## 289 2.68 48.87 0.38 2.00 20.34  
## 290 2.64 51.04 0.48 1.87 6.02  
## 291 2.23 47.68 0.16 1.82 4.51  
## 292 2.60 48.35 0.24 4.73 11.95  
## 293 2.04 49.81 0.27 0.96 7.12  
## 294 2.51 55.86 0.28 0.46 21.92  
## 295 2.36 66.54 0.77 0.55 20.23  
## 296 2.43 48.72 0.33 1.82 10.91  
## 297 2.59 54.70 0.47 0.46 13.64  
## 298 2.42 50.46 0.64 0.72 4.61  
## 299 2.47 54.03 1.28 0.71 15.02  
## 300 2.81 49.83 0.67 0.00 15.63  
## 301 2.76 49.14 0.00 0.47 16.45  
## 302 2.13 50.10 0.10 5.66 38.22  
## 303 2.41 50.30 0.12 1.78 42.05  
## 304 2.97 49.03 0.24 4.00 12.13  
## 305 2.78 49.47 0.14 0.92 10.03  
## 306 2.50 48.66 0.00 0.59 36.94  
## 307 2.53 46.97 0.21 2.02 54.28  
## 308 2.73 47.20 0.00 0.12 28.54  
## 309 2.79 49.86 0.23 0.92 3.47  
## 310 2.41 48.32 0.00 0.62 35.97  
## 311 2.83 49.52 0.45 1.34 14.49  
## 312 2.48 48.82 0.22 1.37 28.02  
## 313 2.59 52.97 0.01 0.48 28.41  
## 314 2.56 60.67 0.00 0.86 60.20  
## 315 2.65 51.12 0.71 1.92 18.22  
## 316 2.62 49.91 0.00 0.58 25.17  
## 317 2.73 48.63 0.80 0.77 19.64  
## 318 2.65 48.15 0.34 1.36 2.15  
## 319 3.10 58.43 1.24 1.09 26.32  
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## 321 2.75 64.75 0.14 2.45 21.14  
## 322 2.79 49.23 0.29 1.86 6.96  
## 323 2.30 47.58 0.18 3.89 28.22  
## 324 2.91 46.69 0.14 5.13 69.82  
## 325 2.60 50.17 2.35 0.03 25.15  
## 326 2.63 48.43 0.22 5.51 27.57  
## 327 2.82 49.66 1.11 0.76 23.47  
## 328 3.19 48.94 0.25 4.13 16.80  
## 329 2.75 48.31 0.00 0.88 27.35  
## 330 2.74 48.64 0.25 2.00 17.52  
## 331 2.65 53.80 0.13 0.12 22.08  
## 332 2.41 49.13 0.00 1.27 1.12  
## 333 2.64 50.54 0.10 0.71 0.74  
## 334 2.62 48.10 0.14 0.67 41.71  
## 335 2.62 47.23 0.87 6.16 53.28  
## 336 2.43 54.49 0.04 0.00 49.45  
## 337 2.46 46.10 0.18 0.97 69.73  
## 338 2.88 47.59 0.09 1.72 47.58  
## 339 2.40 45.52 0.49 0.51 50.90  
## 340 2.63 45.01 1.62 0.00 3.55  
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## 342 2.46 47.85 0.14 0.64 29.65  
## 343 2.61 49.47 0.21 0.17 33.44  
## 344 2.77 48.41 0.15 4.39 23.53  
## 345 2.94 49.64 0.29 14.32 3.62  
## 346 2.66 49.06 0.32 1.19 8.89  
## 347 2.38 48.40 0.39 7.31 43.62  
## 348 2.47 49.94 1.11 0.32 0.42  
## 349 2.60 48.29 0.47 0.00 9.72  
## 350 2.43 47.10 0.24 1.51 25.46  
## 351 2.80 49.03 1.24 1.20 4.07  
## 352 2.69 48.97 0.47 0.62 29.17  
## 353 2.39 49.42 0.00 1.13 34.51  
## 354 3.07 48.80 0.39 12.15 28.10  
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## 356 3.05 49.73 0.26 1.90 7.19  
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## 359 2.44 49.52 0.57 0.97 19.60  
## 360 2.50 49.35 0.00 0.82 8.47  
## 361 2.93 47.65 0.10 3.40 45.60  
## 362 2.65 48.22 0.60 3.36 31.32  
## 363 2.65 53.90 0.36 0.42 28.86  
## 364 2.87 49.54 0.02 1.78 6.97  
## 365 2.91 48.67 0.00 0.25 16.35  
## 366 2.68 48.18 0.14 0.37 53.01  
## 367 2.49 48.03 2.08 0.72 35.59  
## 368 2.54 56.49 0.00 0.20 33.87  
## 369 2.67 46.65 0.14 0.47 23.03  
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## 371 2.49 50.48 0.50 1.90 40.69  
## 372 2.39 47.94 0.05 0.10 30.04  
## 373 3.18 50.38 0.23 0.67 25.12  
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## 375 2.66 48.46 0.38 0.82 2.10  
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## 378 2.37 53.00 0.00 0.08 61.88  
## 379 2.76 48.80 0.21 1.27 8.82  
## 380 2.44 47.60 0.13 1.20 30.51  
## 381 2.37 48.28 0.21 0.10 31.04  
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## 384 2.70 50.22 0.00 0.39 26.23  
## 385 2.65 49.19 0.06 0.07 24.22  
## 386 2.72 49.17 0.17 0.38 0.86  
## 387 2.56 48.74 0.31 2.48 46.46  
## 388 2.89 47.26 0.28 1.20 45.86  
## 389 2.83 49.39 0.10 4.07 4.92  
## 390 2.72 50.83 0.02 0.33 17.14  
## 391 2.51 48.47 0.44 0.86 44.47  
## 392 2.61 49.50 0.83 0.29 1.64  
## 393 2.67 50.04 0.33 0.00 10.10  
## 394 2.97 48.95 0.00 0.38 8.86  
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## 397 2.39 50.79 0.00 6.33 46.99  
## 398 2.34 48.72 0.00 1.70 2.02  
## 399 2.48 48.37 0.00 0.04 63.27  
## 400 2.65 48.40 0.18 1.95 56.70  
## 401 2.84 47.14 0.09 1.93 55.89  
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## 403 2.74 48.01 0.34 0.78 40.80  
## 404 2.41 46.88 0.00 1.14 35.32  
## 405 2.52 48.09 0.39 1.05 34.17  
## 406 2.52 46.80 0.11 0.60 11.26  
## 407 2.28 68.00 0.26 3.07 57.38  
## 408 2.42 47.45 0.02 1.34 53.01  
## 409 2.15 48.13 0.06 0.58 56.65  
## 410 2.30 58.82 0.44 0.14 29.07  
## 411 2.19 46.31 0.00 3.38 38.03  
## 412 2.83 58.96 0.08 0.19 39.29  
## 413 2.48 49.63 0.18 3.09 57.80  
## 414 2.47 47.76 0.15 0.27 36.86  
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## 416 2.71 46.38 0.03 0.73 25.87  
## 417 2.19 46.81 0.35 0.52 1.72  
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## 422 2.48 47.70 0.62 0.40 27.67  
## 423 2.88 48.54 0.07 1.64 18.14  
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## 425 2.29 46.97 0.00 0.97 60.89  
## 426 2.37 50.91 0.25 0.70 53.07  
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## 432 2.35 49.30 0.08 0.00 41.89  
## 433 2.68 47.11 0.09 0.00 39.04  
## 434 2.53 47.96 0.32 0.87 28.13  
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## 442 2.83 50.08 0.66 0.92 0.46  
## 443 2.62 50.21 1.28 1.29 0.30  
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## 456 2.48 49.53 1.28 0.83 0.37  
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## 460 3.32 50.84 0.17 1.46 0.25  
## 461 2.78 50.07 0.84 0.38 0.14  
## 462 2.39 49.49 5.92 0.87 0.06  
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## 464 2.62 52.53 2.74 0.14 0.54  
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## 467 2.28 49.44 2.69 0.02 0.87  
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## 473 2.32 52.61 1.46 0.31 6.80  
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## 479 2.34 49.92 0.13 10.89 13.45  
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## 485 2.13 53.53 0.04 0.11 5.81  
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## 499 2.33 49.73 0.01 0.33 0.48  
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## 522 2.24 49.43 0.13 0.22 0.44  
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## 570 2.29 48.25 0.09 1.43 6.80  
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## 607 2.41 50.21 0.08 0.51 2.53  
## 608 2.34 51.53 0.52 0.48 0.31  
## 609 2.59 47.19 0.22 0.00 1.33  
## 610 2.27 53.32 0.16 0.59 2.72  
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## 612 2.54 49.42 0.19 1.33 3.91  
## 613 2.43 49.80 0.05 0.29 1.88  
## 614 2.41 50.16 0.25 0.46 0.17  
## 615 2.36 52.49 0.17 2.68 2.52  
## 616 2.35 49.14 0.07 0.37 0.44  
## 617 2.48 49.38 0.13 0.95 0.34  
## 618 2.47 49.25 0.02 0.10 1.88  
## 619 2.53 49.24 0.68 0.28 0.18  
## 620 2.45 49.26 0.06 0.50 1.04  
## 621 2.41 50.35 0.08 0.36 0.64  
## 622 2.70 49.79 0.30 0.25 0.72  
## 623 2.37 53.00 0.15 0.76 3.84  
## 624 2.40 51.63 0.00 0.68 0.59  
## 625 2.46 51.10 0.23 8.10 5.62  
## 626 2.35 49.23 0.02 0.53 0.05  
## 627 2.48 49.08 0.00 1.85 0.27  
## 628 2.30 48.53 0.06 1.34 9.52  
## 629 2.33 49.95 0.18 0.28 0.70  
## 630 2.30 48.92 0.86 0.52 1.06  
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## 632 2.56 49.37 0.04 0.34 0.06  
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## 635 2.42 49.70 0.19 0.43 0.38  
## 636 2.15 49.30 0.22 0.63 0.11  
## 637 2.26 50.41 1.10 0.50 1.19  
## 638 2.37 48.87 0.39 0.28 0.62  
## 639 2.01 49.64 0.00 0.04 0.04  
## 640 2.45 49.93 0.16 0.39 0.37  
## 641 2.38 49.10 0.40 2.70 9.62  
## 642 2.39 50.06 0.50 0.26 1.13  
## 643 2.43 49.56 0.26 1.11 1.05  
## 644 2.50 49.64 0.06 10.52 2.26  
## 645 2.32 49.83 0.17 0.57 0.84  
## 646 2.16 51.77 0.19 0.37 1.58  
## 647 2.28 49.80 0.42 0.67 0.51  
## 648 2.16 49.62 0.28 0.33 0.61  
## 649 2.43 49.22 0.22 0.63 0.81  
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## 651 2.31 50.72 0.13 0.10 0.54  
## 652 2.33 50.24 0.35 0.05 0.12  
## 653 2.14 49.13 0.10 0.68 0.12  
## 654 2.28 50.51 0.24 0.42 0.79  
## 655 2.36 48.90 0.25 0.67 2.86  
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## 662 2.01 49.70 0.17 0.99 0.18  
## 663 2.09 50.32 0.13 0.28 2.15  
## 664 2.31 50.20 0.13 0.44 1.53  
## 665 2.23 49.95 0.55 1.53 1.53  
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## 668 2.18 48.87 0.15 0.53 0.37  
## 669 2.34 49.49 0.07 0.33 0.69  
## 670 2.36 49.77 0.13 0.25 0.24  
## 671 2.40 49.47 0.17 2.72 1.23  
## 672 2.19 49.95 0.28 0.38 1.34  
## 673 2.24 50.50 0.60 0.38 1.33  
## 674 2.26 50.16 0.24 0.26 0.29  
## 675 2.42 50.70 0.34 2.74 2.24  
## 676 2.39 50.11 0.01 0.52 0.36  
## 677 2.24 50.05 0.14 0.83 0.27  
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## 679 2.38 50.16 0.02 0.38 0.55  
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## 682 2.37 51.54 0.18 0.89 2.20  
## 683 2.32 51.07 0.09 0.12 0.39  
## 684 2.22 49.82 0.15 0.60 1.17  
## 685 2.27 50.30 0.27 0.64 2.99  
## 686 2.42 49.25 0.19 2.27 5.58  
## 687 2.53 51.48 0.23 3.50 1.20  
## 688 2.27 50.70 0.05 0.00 0.28  
## 689 2.54 50.85 0.34 0.40 0.10  
## 690 2.41 49.79 0.22 0.97 0.56  
## 691 2.43 50.45 0.13 1.28 1.59  
## 692 2.33 49.95 0.18 1.03 1.05  
## 693 2.50 50.04 0.22 3.71 1.21  
## 694 2.67 49.74 0.57 0.39 0.48  
## 695 2.12 47.61 1.28 0.00 0.32  
## 696 2.36 49.36 0.00 0.28 0.03  
## 697 2.19 48.97 1.16 0.09 0.15  
## 698 2.54 49.39 0.26 0.89 2.37  
## 699 2.26 49.82 0.21 0.83 1.78  
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## 701 2.19 52.77 0.34 1.05 2.24  
## 702 2.41 49.17 0.54 0.68 1.52  
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## 704 2.49 49.28 0.24 4.79 6.96  
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## 707 2.55 48.76 0.20 0.77 0.10  
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## 709 2.51 49.04 0.29 2.79 7.38  
## 710 2.24 48.88 0.17 0.32 1.00  
## 711 2.27 52.28 0.15 8.04 2.18  
## 712 2.46 49.24 7.98 0.34 0.62  
## 713 2.36 49.89 0.15 0.15 0.02  
## 714 2.31 48.65 0.00 1.66 0.17  
## 715 2.36 51.30 0.00 0.48 0.30  
## 716 2.38 49.78 0.25 1.44 3.70  
## 717 2.54 49.11 0.05 0.76 0.59  
## 718 2.45 49.46 0.20 0.44 0.67  
## 719 2.41 48.76 0.48 0.08 0.19  
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## 721 2.17 49.67 0.30 1.26 1.55  
## 722 2.17 49.58 0.33 0.91 0.91  
## 723 2.53 49.55 1.82 2.59 3.76  
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## 725 2.22 49.80 0.02 0.09 0.15  
## 726 2.36 48.85 0.54 0.96 0.62  
## 727 2.44 48.36 0.36 0.43 3.05  
## 728 2.30 51.59 1.54 0.62 0.49  
## 729 2.42 48.55 1.07 0.32 1.12  
## 730 2.39 49.12 0.12 0.32 2.94  
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## 732 2.33 51.00 0.77 0.15 1.31  
## 733 2.27 52.90 4.24 0.34 1.16  
## 734 2.49 48.79 2.02 0.17 0.31  
## 735 2.06 49.98 0.64 0.00 0.00  
## 736 2.18 52.29 0.30 1.84 0.65  
## 737 2.33 50.18 0.33 0.09 1.63  
## 738 2.22 50.61 0.19 0.58 0.95  
## 739 2.06 49.46 0.00 0.00 0.23  
## 740 2.36 50.41 0.41 1.93 2.19  
## 741 1.96 49.93 0.53 0.42 0.35  
## 742 2.29 50.74 0.58 0.14 5.00  
## 743 2.36 49.66 2.10 5.30 4.31  
## 744 2.12 50.11 0.64 0.96 0.39  
## 745 2.16 49.48 1.60 0.44 0.08  
## 746 2.36 49.37 0.21 1.68 1.31  
## 747 2.21 57.17 1.05 1.10 2.90  
## 748 2.87 51.68 0.53 4.04 3.42  
## 749 2.94 52.10 0.48 1.26 2.06  
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## 753 1.94 46.83 0.00 0.45 5.11  
## 754 2.83 52.12 0.14 1.09 0.04  
## 755 2.76 50.63 0.23 0.38 0.73  
## 756 3.12 52.78 0.00 0.00 2.00  
## 757 2.26 50.40 1.51 0.45 0.18  
## 758 2.46 49.71 0.24 0.72 1.59  
## 759 2.33 49.52 0.32 0.00 0.11  
## 760 2.41 49.89 8.19 0.34 0.14  
## 761 2.04 50.81 0.67 0.18 0.39  
## 762 2.54 49.09 0.27 5.24 4.72  
## 763 2.99 46.70 0.03 0.23 2.95  
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## 765 2.35 49.44 0.85 0.13 4.53  
## 766 2.74 53.43 0.74 1.47 8.72  
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## 770 2.35 48.43 0.44 2.31 2.19  
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## 772 2.29 50.34 0.33 0.61 1.08  
## 773 2.31 49.87 0.07 0.41 0.38  
## 774 2.33 50.12 0.05 0.87 0.92  
## 775 2.54 50.26 1.05 0.56 1.10  
## 776 2.26 51.20 0.73 0.31 0.58  
## 777 2.27 49.92 3.39 0.60 5.27  
## 778 2.49 47.74 0.19 2.15 0.08  
## 779 2.41 50.95 0.64 0.18 0.56  
## 780 2.41 48.54 0.50 0.07 1.38  
## 781 2.22 49.86 0.11 0.25 0.35  
## 782 2.43 54.58 0.83 0.65 3.29  
## 783 2.36 50.09 0.15 0.24 0.62  
## 784 2.34 51.58 1.02 0.81 0.66  
## 785 2.25 55.54 0.95 0.23 5.66  
## 786 2.16 50.20 0.42 0.89 1.19  
## 787 2.68 49.77 0.67 0.68 1.68  
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## 789 2.39 50.23 1.01 0.53 2.56  
## 790 2.24 50.64 0.48 0.74 1.97  
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## 796 2.33 51.20 0.06 1.57 0.00  
## 797 2.56 49.39 0.90 4.30 8.38  
## 798 2.98 52.54 0.82 2.59 4.10  
## 799 2.36 48.29 0.81 1.35 8.24  
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## 802 2.12 49.64 0.42 0.78 0.28  
## 803 2.28 52.02 1.21 0.10 0.10  
## 804 3.03 51.78 0.04 0.00 0.62  
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## 806 2.23 48.57 0.37 0.50 2.23  
## 807 2.49 50.95 0.77 0.63 0.60  
## 808 2.21 51.85 0.60 0.16 0.18  
## 809 2.24 52.71 1.73 0.00 0.16  
## 810 2.57 49.70 0.01 0.52 2.82  
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## 812 2.57 49.15 0.00 0.26 3.00  
## 813 2.55 49.85 0.16 0.28 4.92  
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## 816 2.43 49.08 0.17 0.01 2.50  
## 817 2.77 49.56 0.11 2.35 3.27  
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## 819 2.50 49.93 0.11 0.31 2.00  
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## 822 2.58 49.85 0.13 0.35 1.67  
## 823 2.60 50.08 0.13 0.33 0.47  
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## 825 2.28 48.46 0.24 1.18 3.50  
## 826 2.42 48.94 0.10 1.01 3.04  
## 827 2.43 49.85 0.46 0.76 1.27  
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## 829 2.73 49.64 0.30 0.00 0.38  
## 830 2.56 48.28 0.64 0.23 0.78  
## 831 2.45 48.32 0.09 0.65 4.47  
## 832 2.52 52.65 0.09 0.00 4.98  
## 833 2.49 50.05 0.00 0.15 0.34  
## 834 2.43 50.68 0.34 0.23 0.65  
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## 854 2.35 48.28 0.22 0.33 7.41  
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## 863 2.27 49.33 0.22 0.29 0.82  
## 864 2.53 48.83 0.53 0.35 0.79  
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## 866 2.63 49.10 0.42 0.24 0.63  
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## 870 2.26 48.99 0.15 0.27 0.38  
## 871 2.53 49.89 0.38 0.14 0.38  
## 872 2.50 49.13 0.02 0.17 2.53  
## 873 2.40 49.86 0.07 0.31 0.81  
## 874 2.55 48.58 0.06 0.27 6.63  
## 875 2.13 52.94 0.39 0.84 5.64  
## 876 2.31 48.01 0.35 0.89 10.18  
## 877 2.51 53.97 0.63 0.89 6.18  
## 878 2.43 49.68 0.38 0.23 1.34  
## 879 2.53 48.62 0.39 1.02 4.28  
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## 881 2.45 50.66 0.18 0.34 7.33  
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## 883 2.52 55.19 0.77 0.09 5.03  
## 884 2.58 49.85 0.05 0.98 6.31  
## 885 2.63 50.29 0.47 0.70 3.70  
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## 887 2.47 49.90 0.25 0.78 3.44  
## 888 2.37 48.66 0.34 0.22 2.16  
## 889 2.31 50.14 0.25 0.25 2.35  
## 890 2.60 48.99 0.57 0.16 2.92  
## 891 2.43 56.37 0.38 0.58 3.67  
## 892 2.60 49.99 0.17 1.47 3.86  
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## 894 2.61 48.82 0.08 0.00 0.93  
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## 905 2.49 48.56 0.36 0.14 0.11  
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## 907 2.47 48.82 0.00 0.72 0.52  
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## 911 2.61 49.57 0.05 0.09 8.24  
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## 915 2.46 48.70 0.00 0.78 7.43  
## 916 2.43 49.61 0.48 0.09 1.81  
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## 929 2.54 48.76 0.24 1.49 25.17  
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## 993 2.28 52.57 0.16 0.95 8.39  
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## 995 2.81 49.57 0.17 1.90 12.44  
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## 997 2.69 49.50 0.26 2.04 3.62  
## 998 2.72 49.75 0.08 1.50 6.83  
## 999 2.78 48.16 0.64 3.12 47.44  
## 1000 2.34 46.73 0.04 1.18 25.68  
## 1001 2.23 49.81 0.17 0.44 1.19  
## 1002 2.65 48.90 0.15 2.71 13.88  
## 1003 2.15 47.46 0.08 1.14 14.03  
## 1004 2.79 48.34 0.29 14.97 18.46  
## 1005 2.83 48.11 0.33 4.26 62.16  
## 1006 2.61 49.75 0.10 1.09 5.90  
## 1007 2.67 49.96 0.06 2.59 14.44  
## 1008 2.31 53.86 0.33 0.83 41.62  
## 1009 2.18 47.38 0.36 1.31 10.86  
## 1010 2.51 50.88 0.15 1.69 10.89  
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## 1012 2.26 48.82 0.16 1.17 12.73  
## 1013 2.39 46.89 0.31 2.48 62.26  
## 1014 2.20 47.86 0.53 1.45 2.86  
## 1015 2.17 48.45 0.25 1.74 2.72  
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## 1017 2.49 48.72 1.70 0.60 4.38  
## 1018 2.24 48.68 0.18 1.50 1.11  
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## 1021 2.95 54.17 0.98 1.40 12.98  
## 1022 2.56 48.14 0.15 11.34 7.18  
## 1023 2.66 48.59 0.15 1.49 9.41  
## 1024 2.41 48.25 0.29 8.92 21.54  
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## 1026 2.01 50.51 0.70 0.35 0.42  
## 1027 2.49 55.87 3.95 0.78 6.95  
## 1028 2.64 49.93 0.37 0.71 1.26  
## 1029 2.18 49.50 0.34 0.50 0.58  
## 1030 2.25 50.62 1.31 0.22 0.44  
## 1031 2.25 55.39 10.23 0.48 8.66  
## 1032 2.48 50.14 0.25 0.65 0.64  
## 1033 2.29 49.30 0.28 0.56 1.51  
## 1034 2.50 49.35 1.71 0.44 0.32  
## 1035 2.38 48.97 0.42 1.64 14.23  
## 1036 2.46 51.37 0.43 0.52 2.09  
## 1037 2.40 49.05 0.42 2.36 10.41  
## 1038 2.41 50.09 1.02 0.85 5.05  
## 1039 2.21 49.47 1.44 0.37 0.52  
## 1040 2.24 50.17 1.81 0.45 0.59  
## 1041 2.37 53.97 13.49 0.95 5.47  
## 1042 2.59 49.56 0.12 1.37 1.87  
## 1043 2.18 50.22 2.20 0.53 0.31  
## 1044 2.17 49.94 0.93 0.61 0.62  
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## 1046 2.35 48.22 0.32 0.97 19.85  
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## 1049 2.31 53.58 0.32 0.41 5.96  
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## 1052 2.20 49.68 0.17 0.57 0.37  
## 1053 2.64 53.88 0.14 0.46 4.56  
## 1054 2.11 49.93 1.06 0.71 0.71  
## 1055 2.09 49.69 1.15 0.48 0.96  
## 1056 2.56 48.48 3.14 1.66 2.44  
## 1057 2.39 51.05 0.33 0.87 7.88  
## 1058 2.45 48.92 0.19 2.42 11.03  
## 1059 2.45 51.07 0.74 0.52 1.07  
## 1060 2.30 50.95 0.97 0.22 7.89  
## 1061 2.53 50.94 0.24 0.48 1.16  
## 1062 2.31 49.14 2.91 0.52 0.45  
## 1063 2.31 58.89 6.40 0.46 8.02  
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## 1072 2.41 50.67 0.29 0.17 0.46  
## 1073 2.44 49.34 0.29 0.52 2.41  
## 1074 2.52 51.45 0.62 0.28 2.22  
## 1075 2.03 50.43 0.90 0.08 0.27  
## 1076 2.47 50.25 0.66 0.43 1.11  
## 1077 2.44 48.99 0.23 7.71 13.30  
## 1078 2.53 50.74 1.01 0.14 1.01  
## 1079 2.21 50.19 0.76 0.74 0.35  
## 1080 2.03 50.74 0.65 0.48 0.45  
## 1081 2.44 50.71 0.75 0.39 1.18  
## 1082 2.20 50.68 0.68 0.14 0.69  
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## 1089 2.47 49.84 0.11 0.53 1.93  
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## 1091 2.15 49.36 5.85 0.44 0.49  
## 1092 2.37 50.31 0.30 0.44 1.02  
## 1093 2.47 49.72 0.80 0.77 3.73  
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## 1095 2.51 49.89 0.35 0.49 0.86  
## 1096 2.05 50.52 2.22 0.25 0.45  
## 1097 2.71 50.02 0.56 4.57 6.74  
## 1098 2.42 49.75 5.86 0.61 0.43  
## 1099 2.50 49.77 19.40 0.63 1.25  
## 1100 2.40 49.75 0.17 0.93 4.63  
## 1101 2.10 49.72 0.06 0.14 0.06  
## 1102 2.25 50.08 0.26 0.66 0.73  
## 1103 2.75 49.73 0.23 3.08 1.81  
## 1104 2.19 51.27 9.56 0.54 0.42  
## 1105 2.26 50.02 1.85 1.17 1.08  
## 1106 2.65 51.99 0.56 1.14 1.19  
## 1107 2.53 50.55 7.64 0.56 0.19  
## 1108 2.04 49.96 9.27 0.98 0.04  
## 1109 2.23 49.96 0.15 4.64 0.25  
## 1110 2.31 49.74 0.86 0.43 0.84  
## 1111 2.58 49.34 0.24 4.99 6.41  
## 1112 2.66 50.46 0.28 0.93 0.15  
## 1113 2.21 50.23 0.20 0.21 0.22  
## 1114 2.21 50.32 0.20 0.36 0.28  
## 1115 2.38 50.38 0.04 0.55 0.46  
## 1116 2.30 49.77 0.46 2.74 1.16  
## 1117 2.31 49.91 0.79 0.76 1.18  
## 1118 2.28 50.86 0.34 0.02 0.27  
## 1119 2.40 49.46 0.70 7.21 13.18  
## 1120 2.22 49.86 0.12 0.55 1.04  
## 1121 2.39 50.94 2.25 0.47 0.59  
## 1122 2.61 50.58 0.29 1.59 0.51  
## 1123 2.25 50.60 3.20 0.33 0.51  
## 1124 2.18 50.88 0.03 2.22 0.26  
## 1125 2.41 50.25 0.49 0.77 0.22  
## 1126 2.48 50.01 0.34 0.81 5.15  
## 1127 2.16 50.33 0.42 0.91 0.73  
## 1128 2.07 50.29 2.43 0.47 0.57  
## 1129 2.13 50.17 0.23 0.89 0.56  
## 1130 1.99 51.85 0.53 0.13 0.61  
## 1131 2.43 53.48 1.84 0.08 0.08  
## 1132 2.51 50.37 0.29 0.32 0.70  
## 1133 2.22 50.36 0.18 0.55 0.23  
## 1134 2.43 49.27 0.23 4.74 3.04  
## 1135 2.40 49.76 0.26 0.61 0.64  
## 1136 2.79 50.69 37.15 0.34 0.94  
## 1137 2.34 50.69 0.40 0.30 0.42  
## 1138 2.20 50.18 0.33 0.43 0.41  
## 1139 2.47 51.12 0.10 0.22 0.47  
## 1140 2.42 50.18 4.80 0.87 0.40  
## 1141 2.41 50.53 0.12 0.39 0.16  
## 1142 2.48 50.65 0.15 4.86 3.68  
## 1143 2.22 49.92 0.30 1.53 0.35  
## 1144 2.44 49.86 0.05 1.53 2.51  
## 1145 2.69 52.00 0.55 5.90 4.06  
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## 1147 2.42 48.83 0.30 5.93 6.54  
## 1148 2.32 50.28 0.39 0.47 1.17  
## 1149 2.32 49.57 1.84 0.91 1.42  
## 1150 2.48 53.52 2.38 0.68 2.42  
## 1151 2.25 48.38 1.36 0.77 1.10  
## 1152 2.38 50.89 1.38 0.97 2.34  
## 1153 2.18 50.36 0.30 0.70 0.41  
## 1154 2.32 51.19 1.87 0.00 0.75  
## 1155 2.36 50.87 1.28 0.74 0.47  
## 1156 2.51 50.87 0.37 2.11 5.71  
## 1157 2.29 48.31 0.83 1.09 0.60  
## 1158 2.54 51.86 1.77 2.71 0.90  
## 1159 2.21 50.12 1.73 0.95 1.53  
## 1160 2.88 49.74 0.72 5.84 4.27  
## 1161 2.86 50.98 0.47 1.26 2.78  
## 1162 2.44 50.83 0.32 0.67 0.92  
## 1163 2.56 50.34 0.19 2.14 6.88  
## 1164 2.44 49.96 0.38 0.42 3.49  
## 1165 2.55 50.13 1.54 2.25 1.58  
## 1166 2.16 49.79 0.41 0.32 1.60  
## 1167 2.45 51.43 0.66 0.65 0.59  
## 1168 2.01 49.36 6.15 0.12 0.24  
## 1169 2.35 50.37 0.40 0.60 0.51  
## 1170 2.31 49.46 0.78 0.32 0.80  
## 1171 2.34 47.79 1.37 0.80 1.38  
## 1172 2.67 49.50 0.32 6.14 4.71  
## 1173 2.46 49.61 0.00 1.66 0.42  
## 1174 2.19 52.44 1.40 0.08 0.89  
## 1175 2.75 50.64 0.28 1.30 1.73  
## 1176 2.33 50.32 2.34 0.50 0.70  
## 1177 2.57 48.81 0.31 0.59 52.93  
## 1178 2.49 49.30 0.28 0.33 12.24  
## 1179 2.26 47.94 0.02 0.30 41.18  
## 1180 2.61 47.50 0.08 0.21 43.11  
## 1181 2.58 49.16 0.00 0.00 33.66  
## 1182 2.47 47.05 0.15 0.75 64.21  
## 1183 2.46 47.94 0.00 0.22 28.45  
## 1184 2.41 51.70 0.00 0.00 35.25  
## 1185 2.53 48.31 0.12 0.08 44.06  
## 1186 2.40 50.23 0.37 0.02 31.14  
## 1187 2.84 46.83 0.06 0.69 87.79  
## 1188 2.49 46.55 0.00 0.00 35.87  
## 1189 2.49 46.92 0.56 0.54 59.43  
## 1190 2.55 46.30 0.33 0.48 76.99  
## 1191 2.87 46.50 0.02 0.16 51.81  
## 1192 2.64 48.45 0.36 0.03 37.01  
## 1193 2.82 48.13 0.15 1.50 28.68  
## 1194 2.55 47.63 0.28 0.91 36.87  
## 1195 2.52 48.41 0.14 0.03 34.95  
## 1196 2.90 50.44 0.42 0.89 7.83  
## 1197 2.50 59.54 0.21 0.01 26.16  
## 1198 2.43 48.91 0.35 0.27 43.87  
## 1199 2.19 48.41 0.64 0.99 7.82  
## 1200 2.51 49.09 0.45 2.55 24.99  
## 1201 2.55 46.68 0.12 0.72 72.96  
## 1202 2.63 47.90 0.00 0.17 83.85  
## 1203 2.54 47.04 0.06 0.17 78.25  
## 1204 2.62 50.27 0.27 0.03 7.23  
## 1205 2.63 49.33 0.46 2.37 21.11  
## 1206 2.59 49.15 0.25 0.58 85.79  
## 1207 2.39 47.50 0.00 0.15 61.15  
## 1208 2.68 48.72 0.33 0.38 29.50  
## 1209 2.36 49.67 3.49 0.07 61.99  
## 1210 2.77 47.60 0.12 1.41 20.44  
## 1211 2.51 49.18 0.21 0.25 32.85  
## 1212 2.74 50.40 5.55 0.30 42.26  
## 1213 2.55 47.05 0.00 0.53 31.15  
## 1214 2.54 47.49 0.22 0.99 43.66  
## 1215 2.46 48.26 0.00 0.75 31.87  
## 1216 2.51 49.41 0.12 0.00 47.56  
## 1217 2.60 47.55 0.02 0.34 30.60  
## 1218 2.25 45.93 0.00 0.00 45.43  
## 1219 2.75 47.80 16.59 0.54 21.27  
## 1220 2.59 46.89 5.30 0.51 30.79  
## 1221 2.58 45.74 0.00 0.10 72.23  
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## 1223 2.74 47.97 0.38 0.40 48.21  
## 1224 2.54 49.37 0.72 0.33 12.79  
## 1225 2.58 49.06 0.00 1.18 17.17  
## 1226 2.63 47.18 0.47 0.72 54.25  
## 1227 2.93 47.79 0.00 0.03 15.98  
## 1228 2.61 48.47 0.04 2.50 9.77  
## 1229 2.27 46.70 0.00 0.21 72.55  
## 1230 2.62 48.23 0.15 1.12 21.36  
## 1231 2.44 46.56 0.14 0.00 74.45  
## 1232 2.68 48.14 0.00 0.55 23.98  
## 1233 2.57 52.72 0.23 0.03 74.03  
## 1234 2.95 56.66 0.08 0.53 59.08  
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## 1236 2.76 47.70 0.05 0.27 16.70  
## 1237 2.41 48.30 0.14 0.05 2.80  
## 1238 2.45 47.12 0.00 0.00 80.45  
## 1239 2.87 48.60 0.22 0.29 16.50  
## 1240 2.50 49.49 0.00 0.06 44.87  
## 1241 2.51 47.89 0.22 0.69 49.24  
## 1242 2.49 46.60 0.05 0.68 71.98  
## 1243 2.53 48.55 0.00 0.22 40.75  
## 1244 2.25 53.92 0.00 0.22 69.89  
## 1245 2.48 48.58 0.98 0.03 47.16  
## 1246 2.36 47.95 0.05 0.00 39.02  
## 1247 2.56 50.04 0.19 0.85 1.07  
## 1248 2.52 46.55 0.37 0.09 5.50  
## 1249 2.55 49.72 0.77 1.74 0.22  
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## 1256 2.40 50.44 0.46 0.48 0.63  
## 1257 2.53 51.08 0.63 0.81 4.21  
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## 1259 2.49 48.31 0.09 1.77 7.29  
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## 1262 2.57 48.73 0.46 0.60 4.18  
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## 1264 2.65 49.12 0.07 0.00 2.13  
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## 1268 2.47 49.53 0.36 0.55 1.43  
## 1269 2.37 50.54 0.39 1.56 11.83  
## 1270 2.52 51.34 0.49 0.41 5.84  
## 1271 2.39 49.08 0.05 0.30 0.58  
## 1272 2.44 50.88 0.70 0.50 0.42  
## 1273 2.59 47.29 1.01 0.64 0.11  
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## 1293 2.52 50.61 0.21 0.72 2.35  
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## 1298 2.70 50.83 3.11 1.53 1.87  
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## 1318 2.86 56.85 0.98 2.74 11.17  
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## 1354 2.26 49.11 3.39 1.01 0.03  
## 1355 2.13 51.17 1.63 1.50 0.72  
## 1356 2.52 49.93 1.53 0.65 0.46  
## 1357 2.36 51.88 0.93 1.27 0.41  
## 1358 3.11 49.36 64.27 0.33 0.38  
## 1359 2.40 51.76 1.02 0.33 0.21  
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## 1372 2.05 62.85 5.44 0.39 0.70  
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## 1379 2.23 51.08 2.28 0.75 0.28  
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## 1382 2.37 49.14 1.08 0.11 0.78  
## 1383 2.30 55.15 7.79 0.46 0.52  
## 1384 2.19 50.55 9.32 0.20 0.40  
## 1385 2.35 47.38 0.80 0.80 0.00  
## 1386 2.31 49.33 3.97 0.71 0.88  
## 1387 2.34 49.88 0.26 1.32 0.56  
## 1388 2.30 50.15 0.00 0.27 1.14  
## 1389 2.27 49.50 0.10 0.38 0.13  
## 1390 2.12 49.10 0.69 0.21 0.21  
## 1391 2.14 48.15 0.21 0.38 0.03  
## 1392 2.49 49.89 0.17 1.45 0.85  
## 1393 2.22 48.89 2.55 0.32 0.31  
## 1394 2.31 49.73 0.73 0.19 0.08  
## 1395 2.56 50.53 0.40 0.38 0.26  
## 1396 2.40 50.62 0.75 0.05 0.12  
## 1397 2.29 47.91 0.00 0.73 0.08  
## 1398 2.32 50.34 3.81 1.34 0.16  
## 1399 2.12 49.84 0.59 0.78 0.65  
## 1400 2.37 50.96 0.53 0.02 0.31  
## 1401 2.27 50.60 0.43 0.17 0.27  
## 1402 2.21 50.06 0.30 0.72 0.10  
## 1403 2.71 49.89 2.18 3.36 6.05  
## 1404 2.59 51.04 0.33 0.79 6.22  
## 1405 2.14 47.40 1.41 0.62 0.23  
## 1406 2.36 50.40 0.46 0.37 0.09  
## 1407 2.32 49.59 0.81 0.64 1.07  
## 1408 2.50 49.31 0.49 4.05 10.87  
## 1409 2.23 51.45 0.05 0.00 0.16  
## 1410 2.22 51.63 0.19 0.08 0.99  
## 1411 2.23 49.47 0.13 0.34 0.17  
## 1412 2.32 50.34 0.68 0.57 0.56  
## 1413 2.02 50.26 0.42 0.21 0.00  
## 1414 2.24 53.20 0.00 0.14 0.10  
## 1415 2.09 52.27 0.05 0.40 0.20  
## 1416 2.24 49.89 0.25 0.13 0.25  
## 1417 2.57 50.61 0.70 1.12 2.95  
## 1418 2.51 49.54 0.01 0.52 0.09  
## 1419 2.20 49.94 0.33 1.39 0.77  
## 1420 2.24 51.51 0.18 0.00 0.04  
## 1421 2.26 50.36 0.63 0.41 0.22  
## 1422 2.35 50.59 0.05 0.28 0.16  
## 1423 2.15 48.23 0.44 0.37 0.72  
## 1424 2.43 49.57 0.83 0.46 0.08  
## 1425 2.06 50.94 0.72 0.47 1.64  
## 1426 2.19 51.12 2.10 0.34 0.14  
## 1427 2.28 49.30 9.67 0.36 0.31  
## 1428 2.40 49.84 1.56 1.81 1.22  
## 1429 2.30 49.54 0.33 1.23 0.78  
## 1430 2.31 51.58 0.34 0.79 0.28  
## 1431 2.22 49.59 0.54 0.00 0.28  
## 1432 2.21 50.16 0.39 0.72 1.53  
## 1433 2.23 49.43 0.74 1.12 0.31  
## 1434 2.42 49.28 0.11 0.22 0.68  
## 1435 2.38 52.02 0.14 0.00 0.17  
## 1436 2.35 49.38 0.18 0.25 0.14  
## 1437 2.50 48.91 0.17 0.00 0.19  
## 1438 2.29 49.51 0.38 0.19 0.64  
## 1439 2.10 50.30 2.25 0.14 1.00  
## 1440 2.52 49.88 0.29 3.21 1.45  
## 1441 2.72 50.06 0.47 2.59 3.95  
## 1442 2.47 50.50 0.18 0.35 0.64  
## 1443 2.39 48.23 1.89 0.66 0.65  
## 1444 2.33 50.84 0.11 0.44 0.65  
## 1445 2.19 48.05 9.51 1.23 2.34  
## 1446 2.42 51.31 0.00 0.24 1.95  
## 1447 2.16 49.60 0.20 0.00 0.52  
## 1448 3.31 48.57 57.95 0.73 0.19  
## 1449 2.18 48.98 0.37 0.00 0.41  
## 1450 2.44 49.66 0.00 0.33 0.63  
## 1451 2.25 49.99 0.83 0.00 0.20  
## 1452 2.23 48.10 0.58 0.25 1.49  
## 1453 2.41 51.37 4.95 2.81 2.59  
## 1454 2.29 50.45 1.69 1.91 0.70  
## 1455 2.79 52.22 5.59 1.24 1.29  
## 1456 2.77 50.41 3.70 0.60 0.05  
## 1457 2.53 52.05 4.84 0.90 1.03  
## 1458 2.38 54.25 4.91 0.07 1.58  
## 1459 2.26 56.29 1.12 0.95 4.37  
## 1460 2.55 50.32 2.71 1.25 0.91  
## 1461 2.28 47.23 20.41 1.45 2.87  
## 1462 2.34 51.18 1.58 1.74 2.12  
## 1463 2.33 64.07 3.91 2.00 3.44  
## 1464 2.38 52.45 0.42 0.83 2.74  
## 1465 2.46 50.39 1.55 5.59 2.41  
## 1466 2.14 59.90 3.94 1.11 6.47  
## 1467 2.32 51.49 2.40 2.82 1.93  
## 1468 2.36 49.10 0.34 1.02 0.64  
## 1469 2.35 48.96 0.24 0.93 0.86  
## 1470 2.11 53.00 0.14 0.54 2.13  
## 1471 2.38 49.13 0.30 3.53 1.31  
## 1472 2.50 49.73 0.12 4.16 2.73  
## 1473 2.43 49.16 0.35 2.07 1.51  
## 1474 2.50 49.60 0.05 2.02 0.88  
## 1475 2.46 49.73 0.25 0.77 0.56  
## 1476 2.56 48.42 0.49 7.86 14.22  
## 1477 2.69 48.55 0.20 16.53 5.84  
## 1478 2.62 48.25 0.18 5.81 19.35  
## 1479 2.22 48.90 0.04 0.60 3.99  
## 1480 2.67 48.12 0.26 5.47 39.29  
## 1481 2.70 48.59 0.11 3.09 10.46  
## 1482 2.54 49.74 0.49 15.75 12.08  
## 1483 2.54 49.63 0.10 4.19 2.74  
## 1484 2.67 48.90 0.25 11.49 20.46  
## 1485 2.77 49.33 0.28 24.50 10.30  
## 1486 2.63 49.14 0.14 10.53 3.35  
## 1487 2.59 48.27 0.09 1.87 3.08  
## 1488 2.93 48.80 0.30 5.37 11.14  
## 1489 2.50 48.91 0.42 0.95 13.84  
## 1490 2.57 49.84 0.03 2.02 2.23  
## 1491 2.86 48.84 0.34 5.29 21.27  
## 1492 2.45 48.98 0.13 2.67 4.69  
## 1493 2.46 49.00 4.65 2.69 2.80  
## 1494 2.65 49.92 1.59 1.04 1.57  
## 1495 1.94 50.62 2.56 0.31 0.69  
## 1496 2.60 51.77 0.85 1.38 5.42  
## 1497 2.67 49.15 0.97 1.13 1.80  
## 1498 2.66 50.48 1.72 0.72 1.54  
## 1499 2.31 49.40 2.39 0.69 0.54  
## 1500 2.63 62.27 7.75 0.16 1.85  
## 1501 2.37 49.24 1.42 0.00 0.85  
## 1502 2.96 51.44 1.04 0.57 3.67  
## 1503 2.29 48.54 1.22 0.14 1.86  
## 1504 2.39 50.76 0.94 4.92 0.81  
## 1505 2.65 50.37 0.93 0.98 1.45  
## 1506 3.35 48.29 75.66 1.11 0.53  
## 1507 1.97 45.24 0.53 0.00 0.04  
## 1508 2.57 46.98 2.27 1.04 0.63  
## 1509 2.94 48.68 15.86 0.60 0.59  
## 1510 2.84 49.47 38.79 0.77 0.85  
## 1511 2.17 49.67 1.64 1.29 1.47  
## 1512 2.33 48.44 3.28 1.30 1.11  
## 1513 3.23 51.91 12.34 2.15 0.70  
## 1514 2.56 49.23 5.88 0.86 0.27  
## 1515 2.48 54.12 2.36 0.02 1.51  
## 1516 2.83 50.31 4.06 1.05 1.37  
## 1517 2.25 48.36 0.14 6.81 12.30  
## 1518 2.30 50.44 0.22 1.05 1.63  
## 1519 2.29 49.22 0.19 4.44 5.32  
## 1520 2.32 49.87 3.21 0.70 1.49  
## 1521 2.28 49.35 0.26 0.53 2.69  
## 1522 2.25 50.13 0.23 0.41 0.82  
## 1523 2.30 51.39 0.25 1.24 4.18  
## 1524 2.27 49.91 0.09 1.78 4.19  
## 1525 2.24 50.48 0.12 0.82 1.84  
## 1526 2.27 48.40 0.48 3.80 13.12  
## 1527 2.14 52.13 0.22 0.27 3.21  
## 1528 2.33 49.88 0.38 0.75 1.86  
## 1529 2.35 50.06 0.71 0.80 2.27  
## 1530 2.49 52.14 0.73 1.04 5.76  
## 1531 3.05 50.88 0.36 0.04 0.54  
## 1532 2.41 49.49 0.12 0.50 1.40  
## 1533 2.33 50.28 0.27 1.12 2.88  
## 1534 2.53 49.32 0.57 0.94 1.62  
## 1535 2.46 49.18 0.16 0.66 2.84  
## 1536 2.97 48.72 0.26 10.29 11.63  
## 1537 2.07 47.36 0.42 12.20 14.33  
## 1538 2.29 48.72 0.93 0.93 6.83  
## 1539 2.39 49.86 0.22 4.16 6.08  
## 1540 2.36 48.24 0.47 3.79 11.13  
## 1541 2.32 49.01 0.27 1.33 2.41  
## 1542 2.85 50.08 0.38 2.86 10.94  
## 1543 2.26 49.72 0.32 0.66 5.90  
## 1544 2.42 50.08 0.12 0.72 1.31  
## 1545 2.28 48.36 0.12 1.28 2.12  
## 1546 2.76 49.84 0.25 2.09 3.39  
## 1547 2.34 49.36 0.13 2.74 6.27  
## 1548 3.15 49.07 0.19 5.99 12.14  
## 1549 2.31 50.94 0.68 1.03 2.60  
## 1550 2.35 49.40 0.21 2.90 1.70  
## 1551 2.34 49.57 0.20 0.97 1.68  
## 1552 2.38 50.20 0.13 0.73 0.78  
## 1553 2.26 52.28 0.36 0.77 5.16  
## 1554 2.35 49.88 0.14 1.56 1.67  
## 1555 2.93 49.20 0.28 4.11 7.68  
## 1556 2.49 51.24 0.21 1.72 8.18  
## 1557 2.32 49.65 0.18 0.86 0.87  
## 1558 2.18 49.43 0.12 9.44 4.09  
## 1559 2.38 49.62 0.19 1.85 6.09  
## 1560 2.18 49.23 0.16 0.86 1.08  
## 1561 2.37 49.56 0.13 0.85 2.47  
## 1562 2.67 48.42 0.36 6.14 14.78  
## 1563 2.34 53.60 0.26 0.45 4.71  
## 1564 2.67 47.75 0.10 0.66 0.97  
## 1565 2.47 47.46 0.41 1.61 19.81  
## 1566 2.56 51.11 0.94 1.06 5.16  
## 1567 2.19 48.51 0.49 0.42 1.65  
## 1568 2.32 50.73 0.44 1.29 49.08  
## 1569 2.13 55.03 1.13 0.43 4.35  
## 1570 2.20 50.17 0.40 0.71 61.86  
## 1571 2.44 48.13 2.64 0.16 34.69  
## 1572 2.30 48.00 0.60 0.53 9.41  
## 1573 2.40 47.92 0.32 1.26 6.15  
## 1574 2.45 49.85 0.90 3.71 6.12  
## 1575 2.88 48.74 0.32 4.15 18.68  
## 1576 2.47 49.35 0.24 0.52 4.28  
## 1577 2.71 50.39 0.23 1.83 11.09  
## 1578 2.27 48.96 0.31 1.13 4.93  
## 1579 2.39 50.47 0.25 0.90 32.68  
## 1580 2.48 48.90 0.40 4.46 8.29  
## 1581 2.23 48.97 1.72 0.77 1.28  
## 1582 2.15 47.38 0.46 0.49 34.23  
## 1583 2.66 48.23 0.25 1.01 20.72  
## 1584 2.37 50.26 0.66 2.92 21.41  
## 1585 2.49 49.67 0.34 0.41 5.50  
## 1586 2.31 50.08 0.15 0.54 3.33  
## 1587 2.59 48.49 0.64 0.69 4.78  
## 1588 2.33 47.79 0.27 4.97 35.56  
## 1589 2.47 46.42 0.34 0.16 57.46  
## 1590 2.47 47.43 0.35 2.40 26.09  
## 1591 2.58 49.64 0.95 0.46 24.09  
## 1592 2.57 48.23 0.30 1.69 16.58  
## 1593 2.38 47.09 8.99 0.00 0.19  
## 1594 2.60 50.93 0.36 0.54 29.48  
## 1595 2.56 54.93 0.49 0.05 33.77  
## 1596 2.46 47.37 0.48 5.15 34.24  
## 1597 2.35 48.24 3.49 0.72 52.17  
## 1598 2.82 49.56 0.98 1.35 20.97  
## 1599 2.28 48.67 0.53 0.76 0.87  
## 1600 2.31 47.93 0.28 1.39 3.58  
## 1601 2.41 49.49 1.31 0.87 60.18  
## 1602 2.88 49.42 7.69 1.43 33.56  
## 1603 2.21 53.17 0.12 0.00 29.49  
## 1604 2.33 48.57 7.47 0.73 2.07  
## 1605 2.83 49.10 0.48 0.66 16.18  
## 1606 2.29 49.41 0.94 0.37 29.51  
## 1607 2.70 48.31 0.69 1.47 19.64  
## 1608 2.34 48.23 0.20 0.35 38.81  
## 1609 2.42 50.53 0.17 1.02 3.68  
## 1610 2.17 48.11 0.64 0.94 1.48  
## 1611 2.34 46.54 0.30 0.64 42.06  
## 1612 2.56 48.07 0.35 6.06 31.64  
## 1613 2.28 49.82 0.51 0.19 0.14  
## 1614 2.41 48.14 0.79 1.37 11.08  
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## 1616 2.29 47.62 0.24 1.36 13.15  
## 1617 2.69 55.48 0.55 2.00 14.27  
## 1618 2.52 47.60 0.50 7.90 11.18  
## 1619 2.17 50.80 0.23 0.58 18.58  
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## 1622 2.28 48.26 0.20 0.47 23.70  
## 1623 2.42 48.14 0.61 0.38 25.47  
## 1624 2.20 47.06 0.36 0.74 4.82  
## 1625 2.50 49.37 0.31 1.23 6.17  
## 1626 2.79 48.22 40.19 0.58 23.83  
## 1627 2.32 48.01 0.52 0.70 18.21  
## 1628 2.52 49.42 0.57 1.02 16.13  
## 1629 2.38 48.46 0.38 0.52 9.20  
## 1630 2.68 49.19 2.08 0.58 25.46  
## 1631 2.53 49.46 12.08 0.77 38.78  
## 1632 2.51 49.98 0.51 1.71 11.61  
## 1633 2.30 48.47 0.51 0.38 3.96  
## 1634 2.45 48.47 0.33 0.65 3.76  
## 1635 2.43 48.30 30.15 0.45 0.67  
## 1636 2.23 47.81 0.38 0.16 4.27  
## 1637 1.94 57.09 0.60 0.48 35.75  
## 1638 2.60 46.58 1.12 0.84 49.14  
## 1639 2.61 48.64 0.31 7.33 20.17  
## 1640 2.22 47.51 0.45 0.30 48.58  
## 1641 2.32 49.87 0.50 1.17 1.72  
## 1642 2.51 48.96 0.26 1.19 30.39  
## 1643 2.33 49.29 0.20 0.59 3.87  
## 1644 2.50 47.15 0.49 0.63 39.79  
## 1645 2.44 49.55 0.33 0.10 3.22  
## 1646 2.37 49.36 0.55 0.30 0.64  
## 1647 2.08 51.39 0.40 2.29 1.59  
## 1648 3.02 50.60 53.88 0.06 0.22  
## 1649 2.13 52.01 3.99 0.26 0.64  
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## 1651 2.25 52.71 1.07 1.54 0.75  
## 1652 2.32 49.94 4.20 0.77 2.36  
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## 1654 2.06 52.22 1.41 0.00 0.05  
## 1655 2.18 50.15 1.87 0.00 0.68  
## 1656 2.06 49.58 1.09 0.00 2.49  
## 1657 2.50 54.01 8.90 1.17 1.65  
## 1658 2.07 49.88 0.67 1.10 0.00  
## 1659 2.08 48.05 2.12 0.00 0.11  
## 1660 2.14 51.92 2.66 2.85 3.82  
## 1661 2.10 50.56 1.16 1.60 0.00  
## 1662 2.15 49.78 1.04 0.00 0.00  
## 1663 2.13 45.50 2.35 0.00 0.44  
## 1664 2.20 54.70 1.50 0.24 0.57  
## 1665 2.22 51.29 0.38 0.09 0.69  
## 1666 2.24 51.26 0.94 0.34 0.50  
## 1667 1.88 50.18 0.67 0.63 0.39  
## 1668 3.03 54.76 10.00 0.65 1.55  
## 1669 2.15 51.70 6.42 0.13 0.44  
## 1670 2.24 50.87 3.54 0.31 0.67  
## 1671 2.26 50.98 3.60 0.68 1.24  
## 1672 1.95 50.84 0.21 0.56 0.10  
## 1673 2.64 52.14 1.43 0.25 0.00  
## 1674 2.10 51.74 2.29 0.73 0.41  
## 1675 2.24 50.46 9.62 1.48 0.47  
## 1676 2.15 51.98 0.44 2.99 0.25  
## 1677 2.51 50.78 0.04 0.25 0.29  
## 1678 2.21 51.70 1.82 0.46 0.52  
## 1679 3.24 49.35 76.74 0.09 0.60  
## 1680 2.04 53.35 0.51 0.10 3.10  
## 1681 3.87 50.36 82.76 0.00 0.12  
## 1682 2.40 51.70 1.70 1.29 2.65  
## 1683 2.14 50.88 1.47 0.56 1.62  
## 1684 1.96 56.28 7.39 0.18 0.46  
## 1685 2.24 50.64 1.06 0.31 1.11  
## 1686 2.12 51.32 2.36 0.78 0.37  
## 1687 2.34 52.44 1.87 1.47 4.74  
## 1688 1.95 47.57 0.05 0.15 0.00  
## 1689 2.42 54.14 2.65 1.21 4.53  
## 1690 2.63 49.83 0.03 0.35 0.48  
## 1691 2.41 50.53 0.16 0.84 11.33  
## 1692 2.50 48.76 0.03 0.66 0.85  
## 1693 2.43 50.15 0.10 0.47 3.88  
## 1694 2.50 49.57 0.25 2.42 2.89  
## 1695 2.38 49.46 0.07 0.28 0.76  
## 1696 2.46 51.15 0.15 0.56 3.48  
## 1697 2.41 49.69 0.05 0.22 0.82  
## 1698 2.63 48.99 0.11 3.43 7.71  
## 1699 2.37 50.35 0.00 0.09 1.01  
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## 1703 2.37 50.41 0.08 0.28 2.16  
## 1704 2.48 49.13 0.18 0.33 1.22  
## 1705 2.29 49.37 0.15 0.66 1.18  
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## 1713 2.57 49.46 0.50 0.77 1.84  
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## 1716 2.37 49.79 0.21 0.41 1.73  
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## 1718 2.47 49.60 0.00 0.75 1.08  
## 1719 2.39 49.06 0.00 0.52 2.84  
## 1720 2.41 49.27 0.31 0.33 0.79  
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## 1729 2.55 48.76 0.01 0.37 1.71  
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## 1732 2.47 49.22 0.32 1.15 8.12  
## 1733 2.60 54.47 0.09 0.64 5.84  
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## 1735 2.42 53.33 0.25 0.72 5.18  
## 1736 2.55 49.47 0.17 1.01 1.39  
## 1737 2.50 49.97 0.10 0.00 0.53  
## 1738 2.52 50.44 0.00 0.66 0.68  
## 1739 2.55 49.55 0.13 1.35 1.93  
## 1740 2.34 50.24 0.00 0.48 0.46  
## 1741 2.26 48.13 0.18 2.21 20.58  
## 1742 2.37 49.61 0.16 0.08 3.69  
## 1743 2.67 50.04 0.13 0.44 0.75  
## 1744 2.49 48.67 0.17 0.51 3.09  
## 1745 2.43 58.86 0.23 0.08 5.62  
## 1746 2.18 49.98 0.37 0.24 1.29  
## 1747 2.42 49.95 0.12 0.26 0.57  
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## 1751 2.47 49.80 0.12 0.27 0.77  
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## 1753 2.33 50.80 0.15 0.74 8.68  
## 1754 2.44 52.16 0.04 0.51 5.66  
## 1755 2.41 49.93 0.50 0.49 2.68  
## 1756 2.39 50.24 0.36 0.64 3.15  
## 1757 2.35 48.59 0.13 0.88 7.41  
## 1758 2.34 48.48 0.17 3.68 14.37  
## 1759 2.27 48.67 0.12 0.53 8.19  
## 1760 2.47 49.34 0.08 0.39 0.66  
## 1761 2.64 48.02 0.23 4.18 2.46  
## 1762 2.40 49.15 0.33 0.28 0.93  
## 1763 2.48 50.21 0.08 0.24 0.06  
## 1764 2.67 50.40 0.09 6.11 3.63  
## 1765 2.36 49.47 0.42 0.75 1.32  
## 1766 2.53 49.59 0.13 1.03 1.24  
## 1767 2.34 49.52 0.23 0.58 1.07  
## 1768 2.45 49.23 0.20 1.67 2.42  
## 1769 2.38 49.16 0.00 0.98 0.11  
## 1770 2.89 50.21 44.36 0.94 0.56  
## 1771 2.63 50.21 1.54 0.02 0.83  
## 1772 2.50 54.56 2.75 0.22 4.18  
## 1773 2.05 54.60 7.86 0.04 4.03  
## 1774 2.63 48.63 13.66 0.65 1.80  
## 1775 2.64 52.76 21.52 0.52 2.43  
## 1776 2.71 48.80 33.73 0.85 1.29  
## 1777 2.39 47.97 16.49 0.13 10.76  
## 1778 2.25 49.70 0.19 0.00 0.14  
## 1779 2.51 49.89 4.31 4.30 4.77  
## 1780 2.45 50.35 9.63 0.65 0.11  
## 1781 2.59 51.67 4.92 2.64 16.42  
## 1782 2.42 51.03 21.72 0.83 2.98  
## 1783 2.55 49.04 3.65 1.19 3.03  
## 1784 2.49 49.20 22.68 1.23 0.50  
## 1785 2.79 49.13 5.98 0.12 0.08  
## 1786 2.46 48.73 1.93 0.61 0.25  
## 1787 2.53 49.63 2.12 0.95 2.53  
## 1788 2.65 49.66 5.51 0.09 2.17  
## 1789 2.72 49.95 4.74 0.38 2.25  
## 1790 2.42 49.55 1.58 0.16 0.87  
## 1791 2.25 56.49 2.16 0.00 5.79  
## 1792 2.37 49.27 1.95 0.45 9.76  
## 1793 2.98 49.01 0.05 0.00 0.08  
## 1794 2.55 49.39 8.38 0.87 0.65  
## 1795 2.88 52.91 21.63 0.16 4.05  
## 1796 2.50 50.06 1.37 1.40 7.05  
## 1797 2.49 49.64 6.87 0.06 1.56  
## 1798 2.71 49.75 2.14 1.89 1.32  
## 1799 2.42 48.12 3.58 0.52 4.19  
## 1800 2.42 50.82 21.28 0.82 0.93  
## 1801 2.66 49.99 11.10 0.73 1.77  
## 1802 2.65 49.74 7.32 0.24 1.85  
## 1803 2.89 49.70 3.37 0.57 8.13  
## 1804 2.68 49.66 5.99 0.12 1.22  
## 1805 2.57 49.50 14.07 0.82 7.84  
## 1806 2.36 49.88 17.21 0.07 2.34  
## 1807 2.47 49.82 2.84 0.99 0.25  
## 1808 2.59 49.51 5.93 0.16 1.73  
## 1809 2.52 49.85 19.99 0.39 0.39  
## 1810 2.61 50.84 11.77 0.79 1.77  
## 1811 2.44 48.79 18.32 0.72 10.29  
## 1812 2.44 49.66 14.64 0.29 1.92  
## 1813 2.63 53.73 15.43 0.00 7.24  
## 1814 2.54 48.94 2.90 3.30 15.10  
## 1815 2.53 49.49 14.96 0.41 8.05  
## 1816 2.48 50.35 11.70 0.34 11.01  
## 1817 2.53 49.09 20.13 0.74 1.08  
## 1818 2.59 50.22 10.91 0.29 0.79  
## 1819 2.35 50.98 3.90 4.36 3.85  
## 1820 2.59 48.66 14.92 0.79 2.40  
## 1821 2.66 47.89 14.25 0.73 3.26  
## 1822 2.45 48.77 15.50 0.43 0.91  
## 1823 2.63 51.99 6.05 0.00 0.33  
## 1824 2.58 49.72 12.63 1.52 0.98  
## 1825 2.56 48.90 20.42 0.61 4.49  
## 1826 2.58 48.77 5.08 0.67 1.84  
## 1827 2.98 53.19 0.66 3.53 4.23  
## 1828 2.50 50.42 3.25 0.26 7.59  
## 1829 2.53 48.80 5.14 3.56 10.05  
## 1830 2.51 48.60 10.52 2.18 2.58  
## 1831 2.50 49.78 1.88 0.21 1.37  
## 1832 2.57 53.28 1.54 0.42 3.25  
## 1833 2.53 53.56 2.37 0.20 1.40  
## 1834 2.16 51.35 1.76 0.31 1.05  
## 1835 2.39 50.30 0.70 7.38 1.10  
## 1836 2.59 49.36 0.60 4.46 0.88  
## 1837 2.43 49.53 0.62 1.09 0.75  
## 1838 2.60 50.04 0.92 0.82 0.52  
## 1839 2.27 49.33 1.98 1.16 0.37  
## 1840 2.36 49.90 0.92 0.29 0.14  
## 1841 2.47 49.47 0.69 1.06 0.57  
## 1842 2.33 49.48 1.31 0.84 0.55  
## 1843 2.05 48.58 3.38 0.95 0.00  
## 1844 2.24 50.34 1.15 0.00 0.26  
## 1845 2.50 49.50 0.69 1.31 0.57  
## 1846 2.40 48.84 1.11 1.38 0.79  
## 1847 2.72 51.81 14.71 0.49 0.74  
## 1848 2.35 49.89 4.00 1.11 0.67  
## 1849 2.07 53.06 2.81 1.22 0.29  
## 1850 2.39 49.22 0.89 2.84 1.04  
## 1851 2.23 48.06 2.47 1.14 0.33  
## 1852 2.60 49.32 0.91 1.11 0.50  
## 1853 2.67 54.78 1.11 1.77 1.15  
## 1854 2.77 49.81 0.87 2.25 1.13  
## 1855 2.78 50.28 1.10 0.81 0.25  
## 1856 2.70 48.89 1.85 1.51 0.67  
## 1857 2.30 53.74 0.71 0.00 0.06  
## 1858 2.36 50.11 0.84 0.68 0.55  
## 1859 2.72 51.99 2.95 0.87 0.99  
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## 1861 2.17 49.00 0.69 0.24 0.72  
## 1862 2.43 50.10 3.25 0.89 0.15  
## 1863 2.64 49.54 0.58 10.83 2.17  
## 1864 2.67 50.08 1.20 1.42 0.76  
## 1865 2.49 49.18 0.15 0.71 1.59  
## 1866 2.17 48.35 0.12 3.92 13.00  
## 1867 2.30 49.62 0.02 0.31 0.87  
## 1868 2.39 49.32 0.13 0.24 1.03  
## 1869 2.60 49.23 0.34 1.46 5.24  
## 1870 2.31 48.94 0.15 0.59 1.82  
## 1871 2.39 49.48 0.08 0.62 0.67  
## 1872 2.57 49.10 0.09 4.81 3.89  
## 1873 2.34 49.65 0.05 1.30 1.01  
## 1874 2.19 49.17 0.03 0.45 3.58  
## 1875 1.90 49.00 0.16 0.24 0.16  
## 1876 2.42 52.57 0.06 6.25 3.44  
## 1877 2.63 49.28 0.07 5.73 5.67  
## 1878 2.35 49.20 0.13 0.37 1.49  
## 1879 2.33 52.69 0.17 0.51 2.75  
## 1880 2.31 48.09 0.06 1.15 1.71  
## 1881 2.36 49.53 0.11 4.65 4.07  
## 1882 2.37 48.54 0.35 4.76 19.52  
## 1883 2.59 48.10 0.20 5.85 21.65  
## 1884 2.09 50.73 0.09 0.47 0.65  
## 1885 2.35 49.38 0.25 1.83 7.15  
## 1886 2.26 49.59 0.03 0.39 4.07  
## 1887 1.84 69.54 0.14 0.10 21.63  
## 1888 2.48 49.11 0.20 0.74 4.08  
## 1889 2.40 50.51 0.19 0.44 1.36  
## 1890 2.27 52.19 0.00 0.30 3.20  
## 1891 2.36 53.22 0.15 0.62 5.54  
## 1892 2.33 50.10 0.07 0.93 2.26  
## 1893 2.60 49.67 0.01 0.30 1.26  
## 1894 2.31 48.53 0.07 2.96 2.82  
## 1895 2.61 48.97 0.09 2.30 4.07  
## 1896 2.25 48.34 0.05 0.37 3.61  
## 1897 2.54 49.10 0.09 1.49 2.47  
## 1898 2.56 48.91 0.33 3.33 7.27  
## 1899 2.35 49.44 0.17 1.21 5.17  
## 1900 2.33 48.97 0.14 0.76 4.76  
## 1901 2.24 51.72 0.14 0.42 2.40  
## 1902 2.21 49.32 0.13 0.76 6.07  
## 1903 2.39 49.05 0.25 0.36 0.58  
## 1904 2.78 49.55 0.29 2.57 14.19  
## 1905 2.32 47.94 0.12 3.55 2.01  
## 1906 2.54 49.19 0.17 2.89 5.93  
## 1907 2.24 50.48 0.13 0.37 2.47  
## 1908 2.46 50.68 0.22 0.34 0.94  
## 1909 2.50 47.35 0.33 7.42 41.36  
## 1910 2.44 50.72 0.08 1.26 6.16  
## 1911 2.48 50.09 0.17 0.42 0.34  
## 1912 2.30 51.25 0.16 0.42 2.99  
## 1913 2.57 49.92 0.06 0.69 0.95  
## 1914 2.33 52.20 0.09 0.37 2.60  
## 1915 2.04 52.35 0.12 0.07 2.77  
## 1916 2.37 50.05 0.02 0.44 0.61  
## 1917 2.44 49.76 0.08 0.59 0.83  
## 1918 2.42 54.89 0.31 1.84 6.64  
## 1919 2.27 49.42 0.01 0.35 1.12  
## 1920 2.27 50.05 0.13 0.42 0.59  
## 1921 2.37 49.10 0.03 0.97 3.28  
## 1922 2.50 53.09 0.25 0.71 3.43  
## 1923 2.23 48.90 0.06 1.03 2.41  
## 1924 2.42 50.17 0.17 0.44 1.81  
## 1925 2.51 49.41 0.14 1.48 5.79  
## 1926 2.36 48.04 0.13 2.00 1.21  
## 1927 2.32 48.44 0.30 2.95 1.79  
## 1928 2.28 49.36 0.51 1.81 4.38  
## 1929 2.53 48.70 0.41 4.17 9.51  
## 1930 2.39 48.34 0.59 2.13 1.22  
## 1931 2.47 48.19 0.45 0.63 27.22  
## 1932 2.45 48.10 0.25 0.92 24.72  
## 1933 2.25 54.24 0.52 0.15 73.28  
## 1934 2.51 48.17 0.16 0.95 15.80  
## 1935 2.40 48.14 0.20 0.23 45.19  
## 1936 2.49 49.03 0.27 1.23 17.22  
## 1937 2.75 49.68 0.35 2.36 23.30  
## 1938 2.32 48.32 0.58 0.04 40.66  
## 1939 2.42 48.39 0.16 1.63 26.19  
## 1940 2.71 48.41 0.10 0.60 20.10  
## 1941 2.49 48.48 0.38 0.47 36.81  
## 1942 2.47 48.66 0.23 0.45 30.62  
## 1943 2.54 49.46 0.11 0.74 46.74  
## 1944 2.42 47.81 0.33 0.57 38.18  
## 1945 2.51 47.12 0.20 0.31 40.93  
## 1946 2.80 48.69 0.36 1.83 25.23  
## 1947 2.65 53.48 0.28 0.16 35.01  
## 1948 2.56 46.80 0.31 1.41 42.76  
## 1949 2.39 47.33 0.13 0.47 30.74  
## 1950 2.55 48.52 0.44 2.61 17.50  
## 1951 2.71 50.18 0.17 0.41 40.74  
## 1952 2.59 48.72 0.32 0.32 23.61  
## 1953 2.65 48.44 0.14 1.53 20.85  
## 1954 2.53 48.62 0.14 0.53 23.54  
## 1955 2.10 55.75 0.00 0.22 44.08  
## 1956 2.73 46.05 0.65 0.73 56.91  
## 1957 2.54 51.14 3.25 0.31 50.07  
## 1958 2.48 48.34 0.26 0.21 31.18  
## 1959 2.39 49.28 0.68 0.77 7.12  
## 1960 2.45 49.94 0.12 2.00 6.51  
## 1961 2.47 48.36 0.22 2.85 47.36  
## 1962 2.58 48.53 0.16 2.26 19.95  
## 1963 2.29 47.64 0.02 0.01 30.24  
## 1964 2.31 47.40 0.47 0.63 64.37  
## 1965 2.61 48.22 0.72 2.43 18.88  
## 1966 2.29 52.77 2.68 0.00 1.85  
## 1967 2.31 50.77 4.13 5.60 1.20  
## 1968 2.13 59.20 6.91 0.30 1.69  
## 1969 2.35 51.13 1.28 3.15 1.22  
## 1970 2.32 49.15 3.36 3.40 2.32  
## 1971 2.19 49.72 10.53 0.23 1.15  
## 1972 2.43 49.19 2.28 0.21 0.72  
## 1973 2.86 49.68 31.23 0.44 0.08  
## 1974 3.41 50.32 69.63 0.00 0.24  
## 1975 2.18 50.44 4.38 0.28 0.32  
## 1976 2.18 48.94 1.77 1.22 1.35  
## 1977 2.07 51.03 9.68 0.02 0.13  
## 1978 3.34 51.00 77.08 0.07 0.19  
## 1979 2.34 49.36 2.40 0.00 0.00  
## 1980 2.44 52.76 1.21 0.15 0.26  
## 1981 2.05 51.76 7.48 1.19 0.00  
## 1982 2.21 52.24 0.81 0.46 0.59  
## 1983 2.26 51.85 7.35 0.00 0.00  
## 1984 2.50 45.32 4.44 0.00 0.05  
## 1985 2.64 51.47 0.05 0.25 0.39  
## 1986 2.11 50.78 0.20 0.75 0.13  
## 1987 2.19 49.21 11.64 0.02 0.06  
## 1988 2.39 48.88 0.59 1.04 0.00  
## 1989 2.09 49.78 1.89 0.00 0.00  
## 1990 2.23 51.30 0.16 0.22 0.00  
## 1991 2.17 49.53 1.98 1.04 0.93  
## 1992 2.87 49.26 0.19 1.29 1.58  
## 1993 2.68 52.55 40.82 0.18 0.13  
## 1994 2.18 47.93 0.35 0.86 1.68  
## 1995 2.53 51.92 7.33 0.00 0.10  
## 1996 2.45 51.94 2.34 0.99 1.77  
## 1997 2.26 50.75 0.86 0.41 0.23  
## 1998 2.36 50.35 1.94 2.08 6.13  
## 1999 2.40 51.29 10.49 2.17 0.72  
## pct\_hispanic pct\_other\_race pct\_white pct\_single\_parent  
## 1 2.88 0.67 75.76 27.41  
## 2 4.56 1.56 85.44 18.10  
## 3 4.44 3.10 46.30 52.76  
## 4 8.10 3.13 26.18 50.41  
## 5 1.47 0.50 51.62 39.55  
## 6 2.52 0.79 56.89 44.71  
## 7 1.66 0.81 92.07 19.49  
## 8 0.54 0.09 56.86 37.97  
## 9 0.59 0.20 52.46 32.82  
## 10 3.09 0.05 83.31 26.71  
## 11 2.54 1.88 93.33 18.34  
## 12 2.89 1.79 78.75 36.51  
## 13 0.48 0.00 50.54 51.57  
## 14 1.28 0.64 65.93 44.96  
## 15 4.41 0.91 93.94 23.38  
## 16 6.66 2.19 71.58 36.00  
## 17 14.74 8.76 84.77 25.60  
## 18 2.98 0.72 74.91 23.34  
## 19 2.41 0.37 61.88 41.57  
## 20 4.08 1.27 79.14 35.37  
## 21 0.54 0.01 84.63 29.89  
## 22 17.68 10.05 82.37 38.23  
## 23 0.07 0.10 38.42 44.09  
## 24 2.65 0.85 70.05 23.00  
## 25 3.37 0.65 68.23 39.26  
## 26 2.98 0.86 91.20 28.77  
## 27 3.91 1.66 51.42 37.75  
## 28 1.73 0.36 87.43 28.58  
## 29 2.76 0.31 85.94 26.53  
## 30 2.26 0.49 78.25 29.18  
## 31 3.73 0.75 69.68 28.55  
## 32 6.03 2.11 78.90 23.33  
## 33 0.40 0.00 24.80 63.03  
## 34 0.43 0.07 16.27 62.48  
## 35 5.01 1.56 67.28 29.01  
## 36 2.59 0.22 46.58 48.94  
## 37 2.57 1.61 92.29 24.14  
## 38 14.14 2.00 90.27 29.35  
## 39 2.90 1.11 58.01 40.49  
## 40 0.35 0.10 54.39 45.26  
## 41 3.53 1.30 34.74 48.24  
## 42 8.43 4.13 78.56 29.29  
## 43 1.96 1.13 29.61 82.17  
## 44 4.93 1.34 56.78 47.16  
## 45 2.30 0.12 57.79 43.37  
## 46 2.92 0.77 77.26 40.76  
## 47 5.64 2.65 47.77 47.36  
## 48 2.45 0.81 87.03 23.54  
## 49 1.16 0.31 25.33 61.29  
## 50 2.37 0.96 63.48 40.48  
## 51 2.43 0.74 69.86 44.34  
## 52 3.81 0.85 63.34 35.10  
## 53 2.60 1.02 89.56 29.73  
## 54 0.86 0.15 66.00 29.89  
## 55 0.45 0.00 27.18 56.50  
## 56 3.13 1.10 95.58 32.18  
## 57 6.62 1.06 22.01 47.02  
## 58 35.48 2.43 82.08 32.98  
## 59 14.37 2.97 63.13 33.65  
## 60 19.04 3.37 74.00 38.16  
## 61 33.11 1.47 77.49 30.99  
## 62 47.27 1.43 87.66 34.13  
## 63 27.69 4.06 74.09 53.65  
## 64 31.14 7.10 73.79 30.74  
## 65 16.72 3.15 87.96 38.90  
## 66 11.68 3.59 47.26 37.58  
## 67 37.54 8.67 73.31 36.67  
## 68 30.47 5.10 76.76 26.89  
## 69 83.26 9.29 78.16 35.59  
## 70 14.68 3.47 89.31 27.10  
## 71 64.07 14.88 69.39 37.12  
## 72 3.37 0.68 71.32 40.59  
## 73 5.61 1.11 72.20 23.92  
## 74 2.42 0.86 94.95 25.64  
## 75 16.76 2.88 81.97 20.88  
## 76 15.10 1.70 89.30 11.85  
## 77 5.74 0.65 42.57 49.10  
## 78 4.83 2.98 69.98 34.49  
## 79 2.21 1.41 95.53 42.03  
## 80 2.42 0.03 96.07 25.16  
## 81 0.00 0.00 84.42 28.42  
## 82 2.75 0.90 61.02 40.53  
## 83 4.04 0.01 85.21 30.76  
## 84 5.14 2.01 77.64 35.73  
## 85 7.96 2.95 87.72 29.44  
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## 87 2.06 0.06 73.79 40.04  
## 88 1.64 0.49 53.89 36.22  
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## 91 5.75 1.80 85.01 40.11  
## 92 2.88 0.43 93.93 28.57  
## 93 2.89 0.73 93.64 33.54  
## 94 3.53 0.96 84.62 28.92  
## 95 12.66 9.18 66.33 42.40  
## 96 2.40 0.28 90.25 16.54  
## 97 2.96 0.24 76.94 40.04  
## 98 2.18 1.08 39.25 55.22  
## 99 2.94 1.66 59.85 46.80  
## 100 1.62 0.24 94.70 26.51  
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## 103 3.69 1.88 74.56 31.45  
## 104 3.06 0.86 89.85 27.47  
## 105 4.55 1.16 88.20 27.82  
## 106 2.36 0.07 95.75 31.88  
## 107 3.44 1.65 69.64 50.72  
## 108 4.36 1.18 60.23 53.66  
## 109 1.09 0.45 54.51 64.92  
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## 111 0.93 0.74 93.11 19.04  
## 112 2.40 0.17 56.33 52.20  
## 113 3.07 1.61 92.45 32.62  
## 114 1.96 0.29 35.18 63.04  
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## 128 1.95 0.72 94.06 34.45  
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## 138 12.46 2.20 87.41 29.23  
## 139 59.75 6.37 79.16 25.53  
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## 141 20.05 6.90 72.23 32.15  
## 142 13.01 2.44 86.45 18.29  
## 143 53.35 14.51 60.35 36.39  
## 144 42.15 10.54 80.11 22.53  
## 145 11.92 4.42 78.73 35.53  
## 146 84.66 27.23 56.65 36.59  
## 147 22.95 2.74 76.44 27.29  
## 148 53.86 12.56 67.61 33.56  
## 149 54.90 16.04 63.38 31.54  
## 150 19.26 2.75 79.02 28.30  
## 151 48.32 21.05 47.76 30.96  
## 152 58.33 24.68 60.70 28.57  
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## 155 14.88 2.70 88.12 24.67  
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## 160 33.79 11.98 57.63 21.20  
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## 163 49.41 22.11 55.73 26.43  
## 164 53.78 17.87 56.07 32.13  
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## 166 22.75 4.40 82.58 24.91  
## 167 33.63 14.27 71.67 27.26  
## 168 10.36 2.19 85.12 32.10  
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## 170 12.88 1.90 83.18 30.86  
## 171 26.84 9.23 50.67 31.40  
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## 173 31.25 6.18 63.65 30.84  
## 174 25.61 5.21 84.12 31.29  
## 175 7.44 3.58 85.27 49.31  
## 176 12.58 2.95 86.63 25.90  
## 177 42.77 5.96 75.41 24.33  
## 178 31.70 5.68 66.42 25.26  
## 179 28.79 4.35 73.51 29.07  
## 180 40.35 6.71 75.90 27.37  
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## 195 29.30 4.51 86.49 22.85  
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## 197 13.40 1.11 89.84 19.20  
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## 200 9.22 0.51 92.78 13.83  
## 201 9.56 0.88 94.35 22.66  
## 202 33.68 1.80 91.30 35.95  
## 203 15.49 2.18 88.40 21.94  
## 204 18.77 5.80 89.48 22.62  
## 205 26.05 5.83 80.98 22.36  
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## 1139 4.09 1.46 96.07 21.53  
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## 1176 4.79 1.32 92.65 31.39  
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## 1896 1.82 81.37 93.63 30.70  
## 1897 1.61 82.88 95.10 35.55  
## 1898 3.05 85.89 93.79 30.58  
## 1899 2.08 81.11 93.95 31.39  
## 1900 1.83 82.58 94.92 34.16  
## 1901 1.52 79.05 93.51 31.82  
## 1902 1.48 81.12 94.19 31.42  
## 1903 0.99 76.29 96.50 36.79  
## 1904 2.84 88.10 93.77 34.28  
## 1905 1.38 79.76 98.30 30.77  
## 1906 4.10 85.28 95.42 31.70  
## 1907 1.50 78.04 95.77 30.66  
## 1908 2.25 83.22 96.62 35.90  
## 1909 2.47 80.74 91.21 27.28  
## 1910 2.93 88.67 92.17 35.64  
## 1911 4.46 80.77 93.23 33.26  
## 1912 1.91 79.91 94.80 33.56  
## 1913 0.86 77.89 97.54 36.83  
## 1914 1.75 75.60 95.16 33.72  
## 1915 3.38 77.43 94.96 29.15  
## 1916 1.60 84.48 93.87 31.60  
## 1917 1.36 81.26 94.79 32.14  
## 1918 1.51 76.26 97.14 30.19  
## 1919 2.23 82.16 93.43 33.74  
## 1920 1.43 79.40 95.62 33.76  
## 1921 1.45 85.64 94.60 31.06  
## 1922 0.86 83.50 94.89 33.38  
## 1923 2.38 83.55 95.33 32.32  
## 1924 1.33 85.91 95.08 33.10  
## 1925 1.83 85.55 95.37 35.42  
## 1926 2.55 88.17 96.56 27.45  
## 1927 2.38 88.70 95.73 30.21  
## 1928 3.07 89.13 94.20 27.28  
## 1929 1.94 84.86 94.10 29.55  
## 1930 2.87 91.06 94.10 27.63  
## 1931 1.34 74.18 94.99 27.23  
## 1932 2.25 83.48 92.69 31.13  
## 1933 0.99 63.69 87.13 23.09  
## 1934 2.71 80.59 94.54 30.64  
## 1935 2.28 72.31 93.38 29.53  
## 1936 2.99 88.10 95.45 32.81  
## 1937 2.28 83.13 95.68 34.00  
## 1938 7.94 70.58 93.48 31.59  
## 1939 2.40 79.89 96.35 28.20  
## 1940 4.44 67.15 93.50 25.26  
## 1941 2.97 64.46 95.06 29.94  
## 1942 2.55 70.02 90.60 30.79  
## 1943 3.77 76.52 88.52 28.81  
## 1944 2.66 78.56 92.99 23.37  
## 1945 2.42 69.05 91.96 24.47  
## 1946 2.04 83.36 94.29 33.77  
## 1947 1.64 73.54 92.97 25.25  
## 1948 3.71 74.95 94.99 28.89  
## 1949 1.41 77.47 93.13 28.40  
## 1950 2.59 87.21 96.04 31.33  
## 1951 0.44 73.92 92.36 29.43  
## 1952 8.79 79.67 93.71 34.90  
## 1953 6.31 84.31 93.38 31.24  
## 1954 1.73 76.62 93.24 29.90  
## 1955 1.96 76.23 94.32 36.04  
## 1956 0.75 54.44 91.63 22.04  
## 1957 1.52 60.70 89.98 25.98  
## 1958 1.92 72.76 95.02 28.97  
## 1959 1.71 78.75 93.94 28.36  
## 1960 2.52 80.76 94.97 29.67  
## 1961 10.39 84.65 93.89 30.09  
## 1962 1.93 82.35 94.63 33.41  
## 1963 1.68 74.61 92.26 30.20  
## 1964 3.81 59.81 94.97 25.94  
## 1965 12.16 89.01 94.96 31.03  
## 1966 1.78 74.38 99.66 42.26  
## 1967 2.33 76.83 97.70 35.03  
## 1968 2.66 78.33 95.81 31.96  
## 1969 1.22 83.83 96.08 34.59  
## 1970 1.85 83.00 97.80 34.64  
## 1971 2.29 78.55 98.35 33.98  
## 1972 1.41 80.90 94.21 28.86  
## 1973 2.54 71.61 91.55 34.14  
## 1974 0.50 66.64 75.83 25.39  
## 1975 1.85 83.33 94.57 35.01  
## 1976 2.92 83.79 97.87 25.64  
## 1977 1.48 72.62 98.41 29.40  
## 1978 0.00 63.14 78.58 29.75  
## 1979 1.41 77.72 99.45 33.83  
## 1980 0.58 80.77 98.32 34.39  
## 1981 0.92 82.35 97.73 29.73  
## 1982 0.79 81.19 97.76 37.77  
## 1983 1.47 76.36 97.72 31.28  
## 1984 3.96 54.88 98.49 16.23  
## 1985 2.01 79.97 97.68 46.92  
## 1986 3.37 80.29 100.00 30.15  
## 1987 2.89 85.38 98.20 35.53  
## 1988 2.59 75.08 97.75 39.64  
## 1989 1.06 78.40 99.69 27.77  
## 1990 1.34 80.62 98.99 38.31  
## 1991 3.65 84.60 97.33 29.99  
## 1992 2.12 93.28 97.34 33.69  
## 1993 1.65 78.54 93.79 39.70  
## 1994 2.01 63.55 98.27 29.32  
## 1995 3.95 81.35 97.36 39.04  
## 1996 2.41 84.03 97.49 35.69  
## 1997 0.31 77.47 98.83 35.72  
## 1998 2.13 88.44 97.41 34.74  
## 1999 1.11 81.94 97.47 35.16  
## pct\_w\_medicare clinical\_nurse\_pt dentist\_pt pa\_pt mental\_health\_faciliy\_pt  
## 1 6.87 0.02 0.34 0.04 0.0178  
## 2 7.27 0.02 0.49 0.17 0.0174  
## 3 7.51 0.00 0.37 0.04 0.0813  
## 4 5.87 0.00 0.20 0.10 0.1002  
## 5 7.49 0.00 0.36 0.00 0.1538  
## 6 7.36 0.00 0.21 0.00 0.0000  
## 7 9.26 0.04 0.15 0.00 0.0761  
## 8 9.12 0.00 0.48 0.00 0.0805  
## 9 8.70 0.00 0.34 0.04 0.0429  
## 10 6.16 0.00 0.15 0.00 0.0763  
## 11 6.49 0.00 0.00 0.00 0.0668  
## 12 8.55 0.00 0.52 0.04 0.0361  
## 13 10.66 0.00 0.17 0.00 0.0000  
## 14 10.81 0.00 0.00 0.00 0.0000  
## 15 6.95 0.01 0.49 0.06 0.0118  
## 16 4.66 0.00 0.33 0.22 0.0409  
## 17 5.16 0.01 0.28 0.00 0.0279  
## 18 5.14 0.00 0.16 0.04 0.0243  
## 19 10.19 0.00 0.39 0.14 0.0000  
## 20 6.31 0.00 0.51 0.25 0.0586  
## 21 6.53 0.00 0.31 0.12 0.0000  
## 22 9.14 0.00 0.25 0.06 0.0317  
## 23 8.05 0.00 0.14 0.00 0.0682  
## 24 5.55 0.00 0.29 0.12 0.1161  
## 25 6.57 0.00 0.67 0.44 0.0563  
## 26 6.82 0.00 0.37 0.06 0.0582  
## 27 5.74 0.02 0.91 0.47 0.0183  
## 28 12.01 0.00 0.22 0.00 0.0000  
## 29 5.90 0.02 0.56 0.19 0.0107  
## 30 8.18 0.00 0.09 0.03 0.1217  
## 31 3.98 0.01 0.32 0.12 0.0120  
## 32 3.97 0.01 0.27 0.04 0.0098  
## 33 6.77 0.00 0.00 0.00 0.1037  
## 34 6.86 0.00 0.28 0.11 0.0559  
## 35 3.33 0.03 0.55 0.26 0.0211  
## 36 9.39 0.00 0.27 0.00 0.2669  
## 37 7.36 0.00 0.17 0.00 0.0337  
## 38 5.62 0.00 0.36 0.05 0.0309  
## 39 7.17 0.02 0.51 0.39 0.0073  
## 40 10.08 0.00 0.24 0.00 0.0000  
## 41 4.39 0.03 0.79 0.23 0.0267  
## 42 5.66 0.00 0.51 0.10 0.0167  
## 43 8.76 0.00 0.23 0.12 0.1151  
## 44 6.48 0.05 0.20 0.00 0.0000  
## 45 4.63 0.00 0.30 0.18 0.0607  
## 46 8.01 0.04 0.13 0.09 0.0000  
## 47 6.56 0.00 0.26 0.05 0.0000  
## 48 7.50 0.01 0.30 0.02 0.0110  
## 49 8.15 0.00 0.16 0.00 0.0818  
## 50 7.25 0.01 0.31 0.06 0.0250  
## 51 8.45 0.05 0.30 0.05 0.0000  
## 52 5.10 0.02 0.49 0.12 0.0285  
## 53 5.90 0.02 0.49 0.13 0.0317  
## 54 8.34 0.00 0.13 0.00 0.0626  
## 55 10.51 0.00 0.10 0.00 0.0980  
## 56 6.93 0.00 0.17 0.00 0.0851  
## 57 6.20 0.00 0.71 0.28 0.0417  
## 58 6.03 0.00 0.64 0.19 0.1491  
## 59 4.91 0.01 0.82 0.48 0.0912  
## 60 9.55 0.00 0.55 0.35 0.1473  
## 61 5.39 0.00 0.61 0.59 0.0765  
## 62 3.07 0.00 0.21 0.54 0.1071  
## 63 12.93 0.09 0.47 0.19 0.0931  
## 64 6.26 0.01 0.68 0.55 0.0417  
## 65 9.91 0.01 0.42 0.36 0.0737  
## 66 7.31 0.01 0.63 0.41 0.0535  
## 67 7.31 0.01 0.65 0.25 0.0509  
## 68 7.80 0.01 0.32 0.18 0.0562  
## 69 7.55 0.00 0.26 0.00 0.1068  
## 70 9.38 0.02 0.67 0.35 0.1207  
## 71 4.98 0.00 0.29 0.30 0.0551  
## 72 6.53 0.00 0.52 0.00 0.0575  
## 73 11.73 0.00 0.41 0.05 0.1551  
## 74 12.04 0.12 0.52 0.12 0.0710  
## 75 5.66 0.03 0.42 0.16 0.0173  
## 76 8.97 0.00 0.28 0.00 0.0354  
## 77 9.01 0.00 0.50 0.20 0.1008  
## 78 6.35 0.00 0.50 0.09 0.0452  
## 79 8.50 0.14 0.49 0.00 0.0696  
## 80 7.69 0.04 0.40 0.00 0.0401  
## 81 9.60 0.00 0.00 0.13 0.0000  
## 82 7.89 0.00 0.43 0.00 0.0429  
## 83 7.90 0.00 0.43 0.00 0.0951  
## 84 4.99 0.30 0.75 0.22 0.0445  
## 85 6.33 0.00 0.19 0.06 0.0158  
## 86 6.90 0.02 0.65 0.04 0.1260  
## 87 9.88 0.00 0.50 0.06 0.1859  
## 88 13.08 0.00 0.29 0.00 0.2940  
## 89 9.52 0.00 0.27 0.09 0.0900  
## 90 5.38 0.03 0.40 0.18 0.0315  
## 91 7.77 0.06 0.59 0.15 0.0701  
## 92 7.06 0.00 0.38 0.05 0.1084  
## 93 6.08 0.00 0.33 0.04 0.0877  
## 94 7.96 0.00 0.30 0.18 0.1184  
## 95 5.34 0.00 0.23 0.00 0.0763  
## 96 11.96 0.00 0.22 0.07 0.0735  
## 97 9.92 0.12 0.30 0.12 0.2404  
## 98 7.23 0.00 0.43 0.12 0.0612  
## 99 10.68 0.00 0.00 0.00 0.3032  
## 100 9.41 0.06 0.30 0.00 0.1219  
## 101 10.06 0.00 0.47 0.00 0.2349  
## 102 10.10 0.00 0.15 0.00 0.0773  
## 103 7.14 0.00 0.41 0.00 0.0000  
## 104 9.21 0.00 0.47 0.05 0.0934  
## 105 4.46 0.01 0.26 0.12 0.0541  
## 106 10.06 0.00 0.18 0.00 0.0000  
## 107 6.72 0.00 0.32 0.05 0.0232  
## 108 7.12 0.00 0.40 0.02 0.0749  
## 109 6.46 0.15 0.61 0.15 0.1519  
## 110 7.33 0.00 0.22 0.11 0.1110  
## 111 11.08 0.00 0.00 0.13 0.0000  
## 112 10.86 0.00 0.43 0.09 0.0432  
## 113 7.54 0.00 0.00 0.00 0.0000  
## 114 5.85 0.00 0.35 0.06 0.1156  
## 115 7.26 0.09 0.38 0.28 0.0940  
## 116 10.65 0.04 0.17 0.04 0.0429  
## 117 6.85 0.02 0.45 0.09 0.0777  
## 118 7.31 0.00 0.13 0.00 0.0000  
## 119 5.56 0.09 0.77 0.41 0.0662  
## 120 10.36 0.00 0.33 0.00 0.1644  
## 121 6.28 0.00 0.36 0.04 0.2026  
## 122 5.83 0.02 0.29 0.10 0.0403  
## 123 8.99 0.00 0.10 0.00 0.0984  
## 124 10.30 0.00 0.38 0.13 0.0000  
## 125 7.82 0.04 0.78 0.25 0.0470  
## 126 4.35 0.00 0.30 0.00 0.0599  
## 127 10.70 0.06 0.23 0.00 0.0574  
## 128 11.19 0.08 0.24 0.00 0.0789  
## 129 7.54 0.03 0.44 0.08 0.0262  
## 130 9.66 0.00 0.54 0.06 0.1209  
## 131 4.39 0.07 0.66 0.23 0.0288  
## 132 5.19 0.04 0.32 0.42 0.0508  
## 133 12.35 0.00 0.48 0.00 0.0000  
## 134 5.48 0.00 0.28 0.24 0.0944  
## 135 4.42 0.02 0.98 0.29 0.0211  
## 136 7.73 0.00 0.65 0.30 0.0249  
## 137 5.24 0.00 0.77 0.55 0.0329  
## 138 9.38 0.00 0.43 0.09 0.0216  
## 139 4.01 0.00 0.42 0.05 0.0464  
## 140 4.49 0.01 0.91 0.25 0.0200  
## 141 5.93 0.00 0.82 0.50 0.1073  
## 142 6.09 0.09 0.76 0.19 0.0207  
## 143 3.71 0.01 0.63 0.36 0.0160  
## 144 5.37 0.00 0.78 0.35 0.0000  
## 145 5.77 0.00 0.79 0.45 0.0519  
## 146 4.18 0.01 0.32 0.23 0.0055  
## 147 6.36 0.00 0.66 0.22 0.0554  
## 148 3.96 0.00 0.51 0.26 0.0166  
## 149 6.46 0.00 0.63 0.35 0.0000  
## 150 6.49 0.00 1.13 0.33 0.0333  
## 151 5.27 0.01 0.91 0.30 0.0232  
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## 153 8.87 0.00 0.58 0.52 0.0583  
## 154 8.67 0.13 0.86 0.37 0.0581  
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## 156 3.36 0.00 0.41 0.69 0.0688  
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## 161 4.90 0.01 1.04 0.32 0.0174  
## 162 6.14 0.05 0.90 0.21 0.0527  
## 163 6.37 0.01 0.54 0.29 0.0137  
## 164 4.95 0.01 0.74 0.39 0.0164  
## 165 5.34 0.01 0.92 0.36 0.0177  
## 166 5.39 0.01 0.87 0.35 0.0177  
## 167 4.88 0.03 0.82 0.50 0.0185  
## 168 6.43 0.01 0.80 0.62 0.0335  
## 169 6.38 0.00 0.68 0.00 0.6849  
## 170 8.91 0.00 0.72 0.37 0.0462  
## 171 4.05 0.02 0.96 0.23 0.0246  
## 172 5.57 0.02 0.95 0.20 0.0327  
## 173 4.99 0.00 0.82 0.45 0.0519  
## 174 6.74 0.00 0.60 0.47 0.0310  
## 175 8.87 0.00 0.49 0.65 0.1637  
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## 177 5.29 0.01 0.94 0.23 0.0250  
## 178 2.97 0.00 0.64 0.36 0.0273  
## 179 4.69 0.01 0.31 0.47 0.0250  
## 180 3.78 0.06 0.67 1.17 0.0173  
## 181 3.52 0.06 1.30 0.93 0.0618  
## 182 4.94 0.03 1.10 0.71 0.0274  
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## 184 5.61 0.00 0.56 0.28 0.2813  
## 185 3.88 0.00 0.19 0.00 0.1867  
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## 187 8.83 0.05 0.58 0.34 0.0968  
## 188 2.45 0.00 0.00 0.00 0.5571  
## 189 5.80 0.00 0.25 0.25 0.2456  
## 190 5.63 0.00 0.00 0.35 0.1756  
## 191 7.66 0.00 0.00 0.00 0.1929  
## 192 10.32 0.00 0.42 0.29 0.0322  
## 193 4.70 0.06 0.77 0.71 0.0163  
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## 195 5.36 0.00 0.67 0.82 0.0546  
## 196 6.02 0.00 0.07 0.00 0.0366  
## 197 9.16 0.00 0.33 0.40 0.0209  
## 198 5.74 0.00 0.76 0.40 0.0331  
## 199 6.39 0.00 0.00 0.00 0.1604  
## 200 6.02 0.00 0.38 0.19 0.0633  
## 201 5.40 0.00 0.51 0.68 0.0568  
## 202 11.29 0.00 0.29 0.44 0.1453  
## 203 6.42 0.03 0.97 0.64 0.0223  
## 204 6.49 0.28 0.14 0.42 0.1404  
## 205 7.01 0.00 0.50 1.25 0.1252  
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## 208 6.61 0.00 0.49 0.00 0.0000  
## 209 6.89 0.00 1.23 0.88 0.1761  
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## 218 7.86 0.00 0.67 0.39 0.0559  
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## 224 7.14 0.03 1.01 0.59 0.0326  
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## 257 10.55 0.00 0.44 0.30 0.0739  
## 258 6.37 0.00 0.21 0.00 0.0689  
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## 270 10.15 0.07 0.50 0.53 0.0089  
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## 272 9.69 0.02 0.24 0.17 0.0237  
## 273 6.52 0.00 0.24 0.12 0.0000  
## 274 10.50 0.00 0.27 0.16 0.1069  
## 275 10.92 0.00 0.57 0.32 0.0122  
## 276 12.08 0.02 0.43 0.36 0.0107  
## 277 11.34 0.01 0.76 0.51 0.0370  
## 278 7.52 0.02 0.71 0.38 0.0211  
## 279 8.16 0.01 0.66 0.32 0.0947  
## 280 8.14 0.01 0.33 0.32 0.0549  
## 281 4.41 0.01 0.82 0.66 0.0235  
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## 304 5.27 0.00 0.18 0.05 0.0117  
## 305 5.09 0.02 0.34 0.22 0.0000  
## 306 9.11 0.00 0.48 0.06 0.0000  
## 307 5.80 0.05 0.60 0.65 0.0196  
## 308 5.57 0.00 0.15 0.00 0.0000  
## 309 9.59 0.00 0.05 0.00 0.0521  
## 310 7.17 0.00 0.07 0.07 0.0651  
## 311 4.25 0.02 0.32 0.29 0.0000  
## 312 4.20 0.01 0.38 0.31 0.0371  
## 313 5.97 0.08 0.16 0.16 0.0393  
## 314 10.65 0.00 0.32 0.32 0.0000  
## 315 5.07 0.00 0.32 0.23 0.0181  
## 316 4.97 0.00 0.09 0.18 0.0000  
## 317 4.86 0.02 0.30 0.29 0.0329  
## 318 6.14 0.00 0.22 0.10 0.0000  
## 319 7.11 0.00 0.07 0.00 0.0745  
## 320 5.92 0.01 0.69 0.75 0.0276  
## 321 2.59 0.00 7.49 3.70 0.0000  
## 322 5.17 0.01 0.49 0.18 0.0000  
## 323 4.07 0.02 0.54 0.61 0.0313  
## 324 4.61 0.00 0.25 0.09 0.0171  
## 325 5.38 0.00 0.15 0.30 0.1519  
## 326 4.07 0.01 0.71 0.49 0.0092  
## 327 6.66 0.02 0.26 0.22 0.0000  
## 328 4.38 0.00 0.54 0.26 0.0000  
## 329 5.98 0.00 0.29 0.06 0.0578  
## 330 4.81 0.01 0.36 0.35 0.0133  
## 331 9.54 0.00 0.00 0.00 0.0000  
## 332 7.28 0.00 0.31 0.06 0.0623  
## 333 7.41 0.00 0.52 0.18 0.0000  
## 334 8.52 0.00 0.34 0.08 0.0378  
## 335 4.84 0.04 0.59 0.49 0.0367  
## 336 7.88 0.00 0.30 0.15 0.0000  
## 337 5.33 0.03 0.66 0.54 0.0116  
## 338 4.49 0.01 0.41 0.13 0.0000  
## 339 8.24 0.00 0.40 0.30 0.0996  
## 340 3.32 0.00 0.00 0.00 0.0000  
## 341 3.85 0.00 0.14 0.12 0.0152  
## 342 7.83 0.00 0.26 0.00 0.0517  
## 343 5.69 0.04 0.13 0.49 0.0444  
## 344 4.85 0.01 0.97 0.55 0.0259  
## 345 4.18 0.02 0.37 0.24 0.0040  
## 346 7.24 0.00 0.21 0.17 0.0000  
## 347 4.18 0.03 0.70 0.86 0.0158  
## 348 10.96 0.00 0.28 0.06 0.0000  
## 349 5.20 0.00 0.00 0.00 0.0000  
## 350 7.16 0.00 0.54 0.39 0.0351  
## 351 7.60 0.00 0.20 0.26 0.0000  
## 352 6.80 0.00 0.24 0.12 0.0408  
## 353 10.28 0.00 1.01 0.16 0.0531  
## 354 4.24 0.02 0.62 0.27 0.0095  
## 355 6.81 0.04 0.46 0.17 0.0217  
## 356 5.00 0.00 0.49 0.74 0.0097  
## 357 12.39 0.00 0.12 0.24 0.0000  
## 358 4.80 0.00 0.17 0.03 0.0277  
## 359 9.84 0.00 0.27 0.04 0.0757  
## 360 7.20 0.00 0.00 0.00 0.0835  
## 361 4.35 0.01 0.36 0.35 0.0167  
## 362 3.66 0.01 0.54 0.25 0.0125  
## 363 9.83 0.00 0.00 0.00 0.0000  
## 364 6.45 0.03 0.47 0.41 0.0131  
## 365 6.33 0.00 0.07 0.00 0.0000  
## 366 8.20 0.00 0.20 0.39 0.0000  
## 367 7.12 0.00 0.00 0.23 0.0000  
## 368 6.78 0.00 0.10 0.10 0.0000  
## 369 7.40 0.00 0.09 0.00 0.0000  
## 370 9.27 0.02 0.48 0.42 0.0631  
## 371 2.81 0.02 1.41 1.97 0.0476  
## 372 10.43 0.00 0.12 0.00 0.0000  
## 373 5.54 0.00 0.00 0.00 0.0000  
## 374 3.57 0.00 0.51 0.38 0.0338  
## 375 5.65 0.03 0.23 0.26 0.0293  
## 376 7.71 0.00 0.47 0.14 0.0473  
## 377 12.96 0.14 0.21 0.00 0.0000  
## 378 8.26 0.00 0.16 0.00 0.0000  
## 379 5.84 0.00 0.03 0.03 0.0000  
## 380 9.69 0.00 0.12 0.00 0.0000  
## 381 9.85 0.00 0.53 0.18 0.0000  
## 382 6.42 0.00 0.14 0.05 0.0000  
## 383 6.15 0.00 0.18 0.00 0.0000  
## 384 4.58 0.00 0.00 0.11 0.0000  
## 385 6.79 0.00 0.41 0.05 0.0509  
## 386 8.22 0.00 0.10 0.10 0.0000  
## 387 4.39 0.02 0.61 0.60 0.0255  
## 388 5.92 0.00 0.18 0.16 0.0265  
## 389 5.96 0.02 0.66 0.53 0.0000  
## 390 7.35 0.00 0.07 0.07 0.0000  
## 391 6.29 0.00 0.57 0.07 0.0358  
## 392 8.08 0.03 0.33 0.30 0.0000  
## 393 7.13 0.00 0.10 0.00 0.0000  
## 394 8.56 0.00 0.16 0.00 0.0000  
## 395 5.79 0.00 0.09 0.09 0.0000  
## 396 7.06 0.00 0.22 0.31 0.0000  
## 397 12.75 0.00 0.44 0.00 0.0000  
## 398 8.64 0.00 0.35 0.17 0.0000  
## 399 8.46 0.00 0.00 0.15 0.1497  
## 400 5.06 0.03 2.08 1.40 0.0297  
## 401 4.82 0.02 0.77 0.37 0.0110  
## 402 7.25 0.00 0.00 0.00 0.0000  
## 403 5.37 0.00 0.29 0.00 0.0714  
## 404 13.11 0.00 0.50 0.00 0.0000  
## 405 6.45 0.03 0.39 0.36 0.0445  
## 406 7.62 0.04 0.38 0.27 0.0383  
## 407 8.90 0.15 0.00 0.30 0.0000  
## 408 7.78 0.00 0.55 0.20 0.0683  
## 409 9.38 0.00 0.00 0.00 0.1628  
## 410 3.31 0.00 0.12 0.12 0.0394  
## 411 8.41 0.00 0.12 0.12 0.1239  
## 412 15.25 0.00 0.13 0.13 0.0000  
## 413 9.47 0.00 0.12 0.00 0.0000  
## 414 5.62 0.02 0.45 0.92 0.0676  
## 415 6.61 0.02 0.39 0.96 0.0491  
## 416 4.75 0.00 0.48 0.70 0.0741  
## 417 9.71 0.00 0.49 0.24 0.0817  
## 418 6.05 0.01 0.61 0.19 0.0142  
## 419 8.18 0.00 0.51 0.00 0.0000  
## 420 10.25 0.00 0.00 0.00 0.0000  
## 421 11.39 0.00 0.32 0.63 0.0394  
## 422 8.24 0.00 0.23 0.30 0.0377  
## 423 5.90 0.00 0.37 0.12 0.0103  
## 424 7.66 0.00 0.56 0.59 0.1117  
## 425 10.23 0.00 0.19 0.38 0.0000  
## 426 5.15 0.00 0.25 0.05 0.0496  
## 427 8.87 0.00 0.00 0.00 0.0000  
## 428 17.37 0.00 0.00 0.13 0.0000  
## 429 8.05 0.03 0.32 0.13 0.0643  
## 430 6.29 0.00 0.39 0.31 0.0096  
## 431 11.76 0.00 0.35 0.00 0.0000  
## 432 10.54 0.00 0.21 0.31 0.0000  
## 433 9.55 0.00 0.11 0.11 0.0000  
## 434 8.02 0.00 0.10 0.05 0.0000  
## 435 4.33 0.03 0.81 0.85 0.0425  
## 436 13.03 0.22 0.45 0.00 0.2249  
## 437 4.35 0.05 0.99 0.73 0.1239  
## 438 5.20 0.00 0.49 0.65 0.0000  
## 439 4.74 0.00 0.44 0.55 0.1059  
## 440 10.02 0.00 0.81 0.21 0.1281  
## 441 6.85 0.00 0.00 0.25 0.1240  
## 442 4.14 0.01 0.85 0.84 0.1474  
## 443 8.63 0.00 0.47 0.24 0.0790  
## 444 14.32 0.00 0.00 0.00 0.0000  
## 445 5.08 0.01 0.43 0.49 0.0633  
## 446 4.57 0.14 0.70 0.14 0.1404  
## 447 3.79 0.00 0.74 0.66 0.1648  
## 448 9.48 0.00 0.45 0.45 0.2261  
## 449 13.98 0.00 0.24 1.41 0.2353  
## 450 3.45 0.00 0.91 0.66 0.1093  
## 451 4.76 0.00 0.49 0.14 0.0703  
## 452 7.85 0.00 0.76 0.23 0.0000  
## 453 4.63 0.00 0.43 0.53 0.1069  
## 454 5.77 0.00 0.26 0.83 0.0640  
## 455 4.02 0.00 0.20 0.29 0.0654  
## 456 5.95 0.01 0.77 0.54 0.0234  
## 457 10.86 0.00 0.37 0.12 0.2483  
## 458 8.99 0.00 0.52 0.00 0.0000  
## 459 5.45 0.00 0.19 0.19 0.0000  
## 460 1.75 0.00 0.62 0.50 0.1488  
## 461 4.12 0.00 0.33 0.09 0.0000  
## 462 6.03 0.05 0.79 0.59 0.1227  
## 463 4.79 0.00 0.44 0.88 0.0000  
## 464 6.22 0.00 0.33 0.25 0.0000  
## 465 6.02 0.04 0.57 0.73 0.1211  
## 466 2.70 0.00 0.26 0.13 0.0000  
## 467 9.13 0.00 0.54 0.15 0.1549  
## 468 4.69 0.00 0.48 0.48 0.0800  
## 469 4.79 0.02 0.76 0.60 0.0905  
## 470 10.18 0.00 0.51 0.34 0.0000  
## 471 7.70 0.03 0.83 0.25 0.0772  
## 472 10.29 0.00 0.73 0.36 0.1819  
## 473 5.75 0.06 0.18 0.00 0.0615  
## 474 4.76 0.00 0.36 0.06 0.0189  
## 475 9.30 0.00 0.00 0.00 0.1528  
## 476 6.77 0.03 0.37 0.15 0.0310  
## 477 10.61 0.00 0.22 0.22 0.0000  
## 478 6.96 0.00 0.67 0.17 0.0839  
## 479 3.32 0.05 0.65 0.43 0.0239  
## 480 6.10 0.00 0.25 0.03 0.0312  
## 481 5.16 0.00 0.13 0.13 0.0655  
## 482 6.24 0.00 0.54 0.15 0.0000  
## 483 5.26 0.00 0.32 0.13 0.0267  
## 484 5.73 0.00 0.54 0.42 0.0198  
## 485 3.96 0.00 0.38 0.16 0.0000  
## 486 7.99 0.00 0.09 0.28 0.0939  
## 487 3.92 0.02 0.65 0.11 0.0479  
## 488 6.59 0.00 0.33 0.00 0.0651  
## 489 6.94 0.00 0.62 0.21 0.0513  
## 490 5.05 0.05 1.14 0.38 0.0207  
## 491 9.36 0.00 0.30 0.12 0.0593  
## 492 5.31 0.03 1.67 0.26 0.0587  
## 493 4.46 0.08 0.39 0.31 0.1545  
## 494 5.62 0.00 0.39 0.37 0.0263  
## 495 4.74 0.00 0.00 0.00 0.2086  
## 496 8.38 0.00 0.31 0.31 0.0000  
## 497 4.67 0.04 0.37 0.22 0.0196  
## 498 7.82 0.00 0.12 0.37 0.0000  
## 499 9.97 0.00 0.34 0.00 0.0000  
## 500 5.27 0.00 1.68 0.00 0.0000  
## 501 4.25 0.00 0.37 0.02 0.0207  
## 502 6.12 0.04 0.37 0.04 0.0374  
## 503 6.98 0.00 0.11 0.11 0.1057  
## 504 5.12 0.03 0.56 0.48 0.1074  
## 505 8.12 0.05 0.46 0.23 0.0000  
## 506 6.35 0.00 0.24 0.24 0.0809  
## 507 4.23 0.02 0.68 0.26 0.0226  
## 508 6.01 0.05 0.51 0.37 0.0460  
## 509 4.94 0.02 0.39 0.20 0.0204  
## 510 5.16 0.03 1.20 0.40 0.0202  
## 511 6.18 0.00 0.06 0.00 0.1293  
## 512 6.54 0.00 0.48 0.33 0.0892  
## 513 4.04 0.00 0.53 0.04 0.0000  
## 514 6.08 0.00 0.31 0.10 0.0683  
## 515 5.06 0.02 0.65 0.19 0.0360  
## 516 5.11 0.03 0.67 0.26 0.0234  
## 517 5.89 0.02 0.63 0.51 0.0388  
## 518 7.37 0.00 0.34 0.16 0.0898  
## 519 5.82 0.01 0.91 0.28 0.0419  
## 520 5.06 0.08 0.40 0.22 0.0810  
## 521 6.83 0.00 0.35 0.00 0.0000  
## 522 6.48 0.08 0.38 0.15 0.0759  
## 523 9.32 0.07 0.37 0.00 0.0733  
## 524 4.80 0.00 0.08 0.00 0.0000  
## 525 4.90 0.00 0.26 0.07 0.0000  
## 526 5.04 0.00 0.81 0.14 0.0288  
## 527 6.03 0.00 0.51 0.09 0.0299  
## 528 5.71 0.00 0.14 0.00 0.0697  
## 529 5.16 0.41 0.90 0.61 0.0394  
## 530 5.90 0.00 0.31 0.37 0.0611  
## 531 9.96 0.00 0.00 0.00 0.0000  
## 532 5.60 0.00 0.35 0.00 0.0000  
## 533 5.15 0.00 0.38 0.32 0.0957  
## 534 5.84 0.00 0.26 0.06 0.0645  
## 535 5.70 0.01 0.72 0.35 0.0355  
## 536 5.01 0.02 0.71 0.39 0.0310  
## 537 4.30 0.04 0.30 0.43 0.1294  
## 538 3.87 0.06 0.86 0.58 0.0206  
## 539 7.95 0.00 0.00 0.15 0.1484  
## 540 6.19 0.00 0.20 0.20 0.0000  
## 541 6.28 0.00 0.28 0.19 0.0470  
## 542 6.38 0.00 0.19 0.00 0.0000  
## 543 9.51 0.11 0.52 0.05 0.0456  
## 544 4.85 0.02 0.57 0.11 0.0229  
## 545 5.35 0.01 0.40 0.41 0.0000  
## 546 6.19 0.00 0.45 0.45 0.0000  
## 547 5.98 0.00 0.36 0.12 0.0599  
## 548 5.53 0.00 0.29 0.22 0.1453  
## 549 7.19 0.00 0.25 0.44 0.0000  
## 550 7.24 0.00 0.46 0.24 0.0183  
## 551 4.12 0.02 0.59 0.20 0.0160  
## 552 6.22 0.03 0.60 0.80 0.0151  
## 553 6.29 0.07 0.85 0.42 0.0213  
## 554 3.94 0.03 0.18 0.13 0.0263  
## 555 4.78 0.00 0.39 0.11 0.0558  
## 556 5.79 0.03 0.66 0.70 0.0366  
## 557 6.25 0.05 0.78 0.22 0.0474  
## 558 5.56 0.00 0.25 0.08 0.0849  
## 559 5.32 0.03 0.52 0.19 0.0433  
## 560 7.08 0.00 0.07 0.00 0.0662  
## 561 8.66 0.05 0.40 0.00 0.0494  
## 562 5.23 0.02 0.40 0.08 0.0503  
## 563 5.62 0.00 0.23 0.11 0.0381  
## 564 7.02 0.00 0.47 0.00 0.0311  
## 565 7.02 0.00 0.09 0.09 0.0941  
## 566 4.34 0.00 0.30 0.15 0.0597  
## 567 5.74 0.02 0.24 0.06 0.1606  
## 568 6.56 0.00 0.34 0.11 0.0376  
## 569 5.30 0.02 0.44 0.07 0.0687  
## 570 4.43 0.01 0.63 0.28 0.0441  
## 571 5.54 0.01 0.38 0.09 0.0146  
## 572 7.61 0.04 0.35 0.09 0.1311  
## 573 4.32 0.00 0.73 0.28 0.0253  
## 574 5.72 0.00 0.30 0.00 0.0606  
## 575 5.92 0.00 0.70 0.44 0.0439  
## 576 6.39 0.05 0.45 0.05 0.0500  
## 577 4.71 0.00 0.53 0.12 0.0296  
## 578 5.18 0.00 0.64 0.08 0.0767  
## 579 4.06 0.00 0.43 0.06 0.0311  
## 580 4.01 0.03 0.75 0.30 0.0029  
## 581 4.50 0.05 0.36 0.10 0.0251  
## 582 6.47 0.00 0.39 0.05 0.0246  
## 583 4.77 0.05 0.48 0.30 0.0173  
## 584 5.45 0.00 0.37 0.33 0.0416  
## 585 5.22 0.02 0.82 0.22 0.0483  
## 586 6.84 0.00 0.41 0.27 0.0275  
## 587 5.88 0.00 0.24 0.05 0.0000  
## 588 6.03 0.00 0.59 0.16 0.0934  
## 589 5.99 0.04 0.25 0.07 0.0363  
## 590 4.84 0.01 0.66 0.34 0.0187  
## 591 4.30 0.03 0.44 0.33 0.0821  
## 592 6.44 0.00 0.30 0.23 0.0633  
## 593 5.20 0.00 0.25 0.07 0.0499  
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## 595 5.89 0.02 0.56 0.05 0.0365  
## 596 4.98 0.00 0.44 0.04 0.0220  
## 597 5.88 0.02 0.57 0.19 0.0540  
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## 602 4.07 0.01 0.57 0.38 0.0270  
## 603 4.70 0.00 0.57 0.08 0.1043  
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## 605 5.59 0.00 0.25 0.04 0.0836  
## 606 7.98 0.00 0.34 0.00 0.0000  
## 607 5.29 0.00 0.36 0.00 0.0509  
## 608 6.69 0.00 0.19 0.00 0.0960  
## 609 6.44 0.00 0.18 0.00 0.1185  
## 610 7.56 0.00 0.31 0.00 0.0522  
## 611 8.86 0.00 0.08 0.08 0.0808  
## 612 4.92 0.01 0.58 0.09 0.0351  
## 613 9.59 0.00 0.24 0.04 0.0396  
## 614 7.65 0.00 0.24 0.00 0.0807  
## 615 5.29 0.00 0.43 0.19 0.0534  
## 616 5.99 0.00 0.29 0.00 0.0827  
## 617 5.77 0.00 0.11 0.04 0.1055  
## 618 6.98 0.00 0.42 0.00 0.1201  
## 619 6.84 0.00 0.29 0.08 0.1682  
## 620 7.28 0.02 0.38 0.18 0.0223  
## 621 6.93 0.00 0.30 0.05 0.0494  
## 622 9.19 0.00 0.22 0.00 0.0434  
## 623 3.91 0.00 0.24 0.00 0.0486  
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## 625 4.60 0.08 0.48 0.20 0.0408  
## 626 5.04 0.07 0.59 0.00 0.0000  
## 627 8.51 0.00 0.00 0.00 0.0000  
## 628 6.89 0.07 0.72 0.35 0.0493  
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## 630 5.97 0.00 0.42 0.13 0.0325  
## 631 6.17 0.03 0.40 0.33 0.0474  
## 632 7.66 0.00 0.18 0.04 0.0354  
## 633 6.94 0.03 0.61 0.33 0.0912  
## 634 5.86 0.00 0.33 0.00 0.0414  
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## 638 6.16 0.00 0.32 0.00 0.0805  
## 639 6.99 0.00 0.36 0.73 0.0000  
## 640 5.33 0.00 0.24 0.63 0.0393  
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## 642 4.77 0.00 0.42 0.08 0.0381  
## 643 3.72 0.00 0.67 0.28 0.0790  
## 644 3.91 0.00 0.61 0.00 0.1012  
## 645 6.68 0.00 0.28 0.14 0.0000  
## 646 5.86 0.00 0.53 0.53 0.0000  
## 647 5.82 0.00 0.65 0.35 0.2009  
## 648 7.84 0.00 1.09 0.47 0.1560  
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## 651 4.90 0.08 0.42 0.08 0.0845  
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## 654 4.12 0.00 0.52 0.06 0.0577  
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## 656 4.80 0.00 0.48 0.18 0.0594  
## 657 3.07 0.00 0.29 0.11 0.0103  
## 658 4.34 0.00 0.22 0.00 0.0000  
## 659 5.35 0.00 0.90 0.13 0.0000  
## 660 5.33 0.00 0.59 0.35 0.1181  
## 661 5.46 0.00 0.72 0.39 0.0517  
## 662 10.24 0.00 0.68 0.00 0.0570  
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## 664 6.63 0.00 0.52 0.57 0.1039  
## 665 5.95 0.00 0.58 0.19 0.0000  
## 666 6.35 0.00 0.40 0.50 0.0000  
## 667 6.95 0.00 0.15 0.15 0.0000  
## 668 4.98 0.00 0.34 0.00 0.0000  
## 669 6.82 0.00 0.25 0.33 0.0000  
## 670 6.86 0.00 0.37 0.09 0.0000  
## 671 6.89 0.00 0.34 0.75 0.0000  
## 672 7.43 0.10 0.57 0.19 0.0000  
## 673 6.07 0.00 0.78 0.18 0.0000  
## 674 6.58 0.00 0.50 0.07 0.1436  
## 675 5.20 0.00 0.61 0.20 0.0508  
## 676 4.56 0.00 0.22 0.11 0.1090  
## 677 6.31 0.00 0.42 0.11 0.0000  
## 678 6.06 0.00 0.44 0.15 0.1463  
## 679 6.30 0.00 0.37 0.43 0.0000  
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## 681 2.36 0.03 2.26 1.48 0.0325  
## 682 4.81 0.00 0.44 0.24 0.0000  
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## 687 4.34 0.00 0.36 0.27 0.0908  
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## 689 5.31 0.00 0.43 0.26 0.0000  
## 690 4.85 0.00 0.36 0.30 0.0605  
## 691 6.00 0.00 0.45 0.22 0.0447  
## 692 3.29 0.00 0.63 0.48 0.0301  
## 693 5.52 0.00 0.66 0.41 0.0253  
## 694 4.98 0.00 0.41 0.00 0.0000  
## 695 7.78 0.00 0.35 0.93 0.1163  
## 696 5.35 0.00 0.39 0.13 0.1287  
## 697 5.60 0.10 0.40 0.20 0.1007  
## 698 4.82 0.05 0.59 0.35 0.0000  
## 699 4.77 0.00 0.58 0.44 0.0731  
## 700 7.59 0.00 0.17 0.00 0.1670  
## 701 5.11 0.00 1.00 0.20 0.1990  
## 702 4.93 0.00 0.48 0.16 0.0397  
## 703 6.07 0.00 0.76 0.15 0.0000  
## 704 3.77 0.01 0.75 0.63 0.0344  
## 705 5.92 0.01 0.63 0.41 0.0429  
## 706 5.83 0.00 0.60 0.71 0.0000  
## 707 6.32 0.00 0.00 0.21 0.0000  
## 708 4.81 0.00 0.31 0.31 0.1041  
## 709 4.17 0.02 0.79 0.51 0.0231  
## 710 8.92 0.00 0.61 0.17 0.0875  
## 711 2.76 0.00 0.51 0.27 0.0407  
## 712 5.02 0.00 0.30 0.30 0.0000  
## 713 5.14 0.00 0.33 0.33 0.0000  
## 714 5.02 0.00 0.49 0.33 0.0823  
## 715 6.78 0.00 0.14 0.42 0.0000  
## 716 3.93 0.03 0.66 0.14 0.0286  
## 717 3.74 0.00 0.38 0.23 0.0000  
## 718 4.04 0.00 0.45 0.09 0.0455  
## 719 6.49 0.00 0.31 0.62 0.1559  
## 720 4.91 0.06 0.81 0.31 0.1391  
## 721 4.99 0.00 0.68 0.29 0.0000  
## 722 5.81 0.00 0.65 0.50 0.0503  
## 723 5.88 0.05 0.73 0.40 0.0291  
## 724 4.55 0.00 0.14 0.00 0.0000  
## 725 7.94 0.00 0.32 0.81 0.0000  
## 726 7.42 0.08 0.56 0.48 0.1613  
## 727 4.22 0.00 0.75 0.75 0.0624  
## 728 5.86 0.00 0.00 0.69 0.2295  
## 729 6.91 0.04 0.55 0.86 0.0390  
## 730 6.16 0.07 0.28 0.07 0.0693  
## 731 5.86 0.00 0.53 0.21 0.1055  
## 732 5.45 0.00 0.00 0.39 0.3867  
## 733 7.62 0.00 0.62 1.86 0.0000  
## 734 6.59 0.00 0.25 0.71 0.1016  
## 735 6.06 0.00 0.77 1.92 0.0000  
## 736 7.72 0.00 0.00 1.53 0.0000  
## 737 4.95 0.00 0.35 0.46 0.1157  
## 738 5.48 0.00 0.49 0.37 0.1226  
## 739 7.88 0.00 0.00 0.00 0.0000  
## 740 4.57 0.00 0.62 0.13 0.1033  
## 741 6.21 0.00 0.36 0.72 0.0000  
## 742 6.83 0.00 0.00 0.27 0.0000  
## 743 3.88 0.09 0.64 0.30 0.0082  
## 744 6.70 0.00 0.36 0.00 0.0000  
## 745 7.80 0.00 0.00 0.00 0.0000  
## 746 4.28 0.00 1.01 0.70 0.0698  
## 747 7.16 0.17 0.33 0.50 0.0000  
## 748 3.04 0.03 0.72 0.31 0.0835  
## 749 3.50 0.00 0.60 0.18 0.0604  
## 750 5.98 0.16 0.31 0.08 0.0389  
## 751 2.21 0.00 1.33 1.99 0.0310  
## 752 6.57 0.00 0.38 0.00 0.0000  
## 753 9.37 0.00 0.00 0.84 0.0000  
## 754 3.43 0.00 0.57 0.42 0.1413  
## 755 3.29 0.00 0.00 0.00 0.0000  
## 756 3.68 0.00 0.41 0.00 0.0000  
## 757 6.89 0.00 0.75 1.12 0.1874  
## 758 5.67 0.06 0.61 0.23 0.0875  
## 759 6.47 0.00 0.00 0.56 0.0000  
## 760 4.59 0.00 0.53 0.15 0.0000  
## 761 10.99 0.00 0.35 0.35 0.0000  
## 762 4.73 0.03 0.88 0.35 0.0099  
## 763 7.65 0.00 0.27 1.87 0.0000  
## 764 5.66 0.00 0.00 0.81 0.8143  
## 765 6.01 0.10 0.46 0.10 0.0511  
## 766 4.04 0.02 0.46 0.36 0.0243  
## 767 6.58 0.00 0.00 0.67 0.0000  
## 768 9.02 0.00 0.41 0.00 0.1036  
## 769 5.42 0.00 0.73 0.00 0.0000  
## 770 3.93 0.00 0.61 0.09 0.0303  
## 771 6.24 0.04 0.53 0.53 0.0352  
## 772 6.54 0.00 0.34 0.17 0.0858  
## 773 6.40 0.00 0.62 0.21 0.1036  
## 774 3.72 0.00 0.25 0.74 0.0000  
## 775 5.78 0.00 0.26 0.23 0.0583  
## 776 7.20 0.00 0.68 0.17 0.3402  
## 777 5.99 0.00 0.54 0.41 0.0000  
## 778 6.89 0.00 0.00 0.79 0.0000  
## 779 6.16 0.00 0.89 0.10 0.0000  
## 780 6.15 0.00 0.31 0.69 0.0628  
## 781 6.87 0.00 0.00 0.00 0.0000  
## 782 9.00 0.00 0.56 0.19 0.1877  
## 783 4.48 0.00 0.13 0.00 0.0634  
## 784 7.06 0.00 0.70 0.18 0.0000  
## 785 6.55 0.16 0.31 0.31 0.3142  
## 786 8.11 0.00 0.39 0.77 0.1930  
## 787 4.07 0.00 0.24 0.20 0.0000  
## 788 7.54 0.00 1.19 1.19 0.0000  
## 789 6.67 0.02 0.57 0.57 0.0324  
## 790 5.97 0.00 0.32 0.11 0.1068  
## 791 1.84 0.01 0.60 0.46 0.0137  
## 792 7.23 0.00 0.41 0.21 0.0000  
## 793 3.82 0.00 0.34 0.34 0.0000  
## 794 6.13 0.00 0.44 0.44 0.0000  
## 795 6.34 0.02 0.80 0.63 0.0556  
## 796 3.85 0.00 0.42 0.42 0.2088  
## 797 4.99 0.05 0.66 0.67 0.0269  
## 798 3.95 0.00 0.33 0.38 0.0475  
## 799 4.38 0.06 0.66 0.54 0.0341  
## 800 6.04 0.00 0.40 0.79 0.0000  
## 801 3.82 0.00 0.69 0.52 0.1731  
## 802 8.57 0.00 0.56 0.00 0.0000  
## 803 4.29 0.25 0.25 0.49 0.2472  
## 804 3.52 0.00 0.37 0.19 0.0000  
## 805 5.87 0.04 0.35 0.18 0.0443  
## 806 5.79 0.13 0.52 1.04 0.1298  
## 807 4.03 0.00 0.00 0.00 0.2896  
## 808 5.91 0.00 0.18 0.00 0.0000  
## 809 6.94 0.00 0.33 0.00 0.3317  
## 810 6.78 0.00 0.15 0.05 0.0511  
## 811 7.12 0.00 0.23 0.00 0.0939  
## 812 4.92 0.00 0.48 0.09 0.0438  
## 813 7.34 0.00 0.26 0.13 0.0000  
## 814 5.74 0.00 0.34 0.14 0.0451  
## 815 4.95 0.00 0.08 0.16 0.0801  
## 816 8.96 0.00 0.59 0.08 0.0785  
## 817 4.34 0.00 0.66 0.08 0.0074  
## 818 7.20 0.00 0.65 0.10 0.1005  
## 819 6.68 0.06 0.71 0.82 0.0860  
## 820 7.30 0.03 0.79 0.49 0.0988  
## 821 8.32 0.00 0.16 0.24 0.0797  
## 822 5.44 0.00 0.15 0.05 0.0487  
## 823 6.90 0.00 0.08 0.08 0.0787  
## 824 7.04 0.00 0.39 0.00 0.1576  
## 825 5.83 0.08 0.43 0.25 0.0254  
## 826 6.88 0.00 0.47 0.33 0.0425  
## 827 8.10 0.00 0.21 0.00 0.0000  
## 828 7.74 0.00 0.28 0.00 0.0932  
## 829 8.26 0.00 0.19 0.23 0.0377  
## 830 8.83 0.00 0.12 0.12 0.0622  
## 831 6.65 0.00 0.52 0.33 0.0823  
## 832 8.32 0.00 0.15 0.10 0.0509  
## 833 6.64 0.00 0.20 0.00 0.1978  
## 834 7.99 0.00 0.11 0.11 0.0000  
## 835 5.31 0.00 0.46 0.15 0.0000  
## 836 5.98 0.03 0.61 0.59 0.0883  
## 837 9.07 0.00 0.16 0.00 0.0817  
## 838 7.88 0.00 0.41 0.00 0.1356  
## 839 7.68 0.00 0.50 0.35 0.0709  
## 840 4.27 0.04 1.44 1.30 0.0277  
## 841 6.02 0.00 0.27 0.27 0.0685  
## 842 3.42 0.00 0.80 0.29 0.0196  
## 843 9.25 0.00 0.17 0.00 0.0000  
## 844 6.63 0.00 0.11 0.00 0.1139  
## 845 7.33 0.00 0.23 0.06 0.0000  
## 846 6.37 0.00 0.32 0.00 0.0394  
## 847 7.27 0.00 0.34 0.04 0.0378  
## 848 7.25 0.00 0.37 0.26 0.0287  
## 849 6.30 0.00 0.69 0.00 0.1144  
## 850 3.59 0.04 0.91 0.52 0.0539  
## 851 10.15 0.00 0.35 0.20 0.0782  
## 852 9.31 0.16 0.32 0.26 0.0529  
## 853 5.11 0.00 0.26 0.00 0.0526  
## 854 7.35 0.00 0.51 0.18 0.0447  
## 855 5.33 0.00 0.37 0.19 0.0000  
## 856 10.51 0.00 0.23 0.00 0.0000  
## 857 6.68 0.00 0.49 0.31 0.0672  
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## 863 8.31 0.00 0.34 0.34 0.0689  
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## 865 4.68 0.00 0.21 0.00 0.0693  
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## 867 9.02 0.00 0.26 0.06 0.1296  
## 868 8.77 0.00 0.14 0.28 0.1376  
## 869 13.40 0.00 0.31 0.10 0.1038  
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## 871 7.87 0.00 0.30 0.30 0.0754  
## 872 7.20 0.00 0.08 0.25 0.0409  
## 873 10.53 0.00 0.11 0.22 0.1106  
## 874 8.05 0.00 0.26 0.00 0.0365  
## 875 12.99 0.00 0.25 0.00 0.0000  
## 876 6.84 0.11 0.93 0.78 0.0609  
## 877 7.44 0.06 0.12 0.12 0.0586  
## 878 7.79 0.00 0.11 0.00 0.0000  
## 879 5.46 0.00 0.47 0.19 0.0106  
## 880 5.30 0.00 0.33 0.25 0.0832  
## 881 5.02 0.05 0.31 0.10 0.0000  
## 882 7.17 0.03 0.39 0.00 0.0000  
## 883 7.50 0.09 0.09 0.00 0.0907  
## 884 6.44 0.00 0.76 0.18 0.0587  
## 885 3.22 0.00 0.24 0.00 0.0349  
## 886 9.60 0.00 0.15 0.31 0.1538  
## 887 5.90 0.00 0.23 0.09 0.0000  
## 888 9.24 0.00 0.20 0.00 0.0994  
## 889 10.51 0.00 0.57 0.00 0.0948  
## 890 6.68 0.04 0.53 0.67 0.0355  
## 891 7.83 0.00 0.30 0.08 0.0761  
## 892 8.61 0.00 0.36 0.16 0.0328  
## 893 4.97 0.00 0.58 0.17 0.0215  
## 894 4.39 0.00 0.14 0.14 0.0000  
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## 897 6.34 0.00 0.54 0.00 0.0908  
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## 901 9.89 0.04 0.81 0.37 0.0351  
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## 911 7.77 0.08 0.08 0.00 0.0000  
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## 998 5.12 0.02 0.41 0.21 0.0483  
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## 1002 4.06 0.01 0.66 0.51 0.0273  
## 1003 7.44 0.00 0.52 0.16 0.1042  
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## 1005 3.00 0.01 0.64 0.31 0.0341  
## 1006 4.79 0.00 0.41 0.18 0.0782  
## 1007 2.56 0.00 0.53 0.17 0.0262  
## 1008 5.52 0.00 2.00 0.24 0.1179  
## 1009 6.68 0.00 0.84 0.51 0.0270  
## 1010 5.19 0.00 0.60 0.50 0.0397  
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## 1012 7.09 0.02 0.55 0.40 0.0763  
## 1013 5.54 0.04 0.80 1.71 0.1041  
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## 1035 5.10 0.00 0.59 0.46 0.0196  
## 1036 4.63 0.00 0.51 0.32 0.0461  
## 1037 4.81 0.02 0.70 0.70 0.0449  
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## 1039 6.74 0.00 1.38 0.27 0.0000  
## 1040 6.19 0.00 0.43 0.16 0.0000  
## 1041 4.47 0.00 0.62 0.27 0.0541  
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## 1053 4.04 0.00 0.42 0.23 0.0465  
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## 1067 4.19 0.00 0.91 0.84 0.0759  
## 1068 5.84 0.00 0.55 0.41 0.0343  
## 1069 5.17 0.02 0.46 0.39 0.0228  
## 1070 6.40 0.00 0.58 0.35 0.0000  
## 1071 3.58 0.00 0.71 0.87 0.0360  
## 1072 6.19 0.00 0.20 0.00 0.0000  
## 1073 4.67 0.02 0.45 0.15 0.0332  
## 1074 5.31 0.03 0.49 0.63 0.0158  
## 1075 6.75 0.11 0.64 0.54 0.0000  
## 1076 7.09 0.00 0.61 0.55 0.0203  
## 1077 4.10 0.02 1.12 0.79 0.0335  
## 1078 6.45 0.00 0.34 0.19 0.0373  
## 1079 6.19 0.00 0.38 0.67 0.0478  
## 1080 7.29 0.00 0.53 0.00 0.1768  
## 1081 6.28 0.00 0.13 0.43 0.0426  
## 1082 5.45 0.00 0.24 0.12 0.1195  
## 1083 4.22 0.00 0.77 0.81 0.0404  
## 1084 4.92 0.01 0.61 0.30 0.0305  
## 1085 7.27 0.00 0.24 0.32 0.0000  
## 1086 8.84 0.00 0.42 0.42 0.0417  
## 1087 3.41 0.00 0.74 0.43 0.0421  
## 1088 4.36 0.03 0.60 0.40 0.0439  
## 1089 4.97 0.00 0.33 0.25 0.0000  
## 1090 5.12 0.00 0.34 0.20 0.0000  
## 1091 7.58 0.00 0.74 0.49 0.1234  
## 1092 4.77 0.00 0.38 0.17 0.0574  
## 1093 5.48 0.03 0.36 0.33 0.0132  
## 1094 3.76 0.01 0.72 0.42 0.0379  
## 1095 4.51 0.00 0.77 0.62 0.0593  
## 1096 7.05 0.00 0.32 0.13 0.1262  
## 1097 3.44 0.03 0.65 0.38 0.0333  
## 1098 5.23 0.03 0.61 0.35 0.0871  
## 1099 4.64 0.04 0.74 0.36 0.0211  
## 1100 3.48 0.00 0.37 0.02 0.0000  
## 1101 5.00 0.00 0.41 0.20 0.0000  
## 1102 4.34 0.00 0.68 0.28 0.0805  
## 1103 2.80 0.01 0.52 0.34 0.0188  
## 1104 6.40 0.00 0.67 0.17 0.0334  
## 1105 3.08 0.09 0.51 0.26 0.0850  
## 1106 3.87 0.00 0.42 0.30 0.0352  
## 1107 5.13 0.00 0.33 0.22 0.0000  
## 1108 11.85 0.00 0.55 0.00 0.0000  
## 1109 4.91 0.00 0.53 0.18 0.0890  
## 1110 5.30 0.11 0.81 0.55 0.1219  
## 1111 3.17 0.02 0.74 0.32 0.0278  
## 1112 3.90 0.00 0.19 0.05 0.0953  
## 1113 4.73 0.03 0.76 0.57 0.1565  
## 1114 5.23 0.00 0.44 0.37 0.0735  
## 1115 4.66 0.00 0.57 0.09 0.0000  
## 1116 4.85 0.00 0.43 0.53 0.0329  
## 1117 6.31 0.02 0.47 0.47 0.0432  
## 1118 5.79 0.00 0.33 0.66 0.0000  
## 1119 3.58 0.09 1.01 0.75 0.0355  
## 1120 6.10 0.00 0.48 0.00 0.0537  
## 1121 5.26 0.00 0.23 0.50 0.0000  
## 1122 3.99 0.05 0.46 0.17 0.0241  
## 1123 4.93 0.04 0.77 0.27 0.0663  
## 1124 4.20 0.00 0.41 0.10 0.1024  
## 1125 5.77 0.00 0.55 0.43 0.0000  
## 1126 4.79 0.07 0.79 0.42 0.0696  
## 1127 3.73 0.00 0.47 0.47 0.0000  
## 1128 5.94 0.00 0.41 0.17 0.0829  
## 1129 5.16 0.00 0.46 0.46 0.1532  
## 1130 5.37 0.00 0.47 0.09 0.0940  
## 1131 4.92 0.00 0.27 0.27 0.0000  
## 1132 4.24 0.00 0.35 0.03 0.0000  
## 1133 5.71 0.00 0.54 0.18 0.0000  
## 1134 4.28 0.04 0.55 0.51 0.0791  
## 1135 4.29 0.06 0.76 0.42 0.0280  
## 1136 5.97 0.00 0.00 0.55 0.0000  
## 1137 5.48 0.00 0.21 0.11 0.0000  
## 1138 6.22 0.05 0.67 0.41 0.0000  
## 1139 3.85 0.00 0.47 0.21 0.0857  
## 1140 4.28 0.00 0.54 0.65 0.0765  
## 1141 4.91 0.00 0.48 0.30 0.0301  
## 1142 4.28 0.00 0.55 0.27 0.0498  
## 1143 6.88 0.00 0.25 0.49 0.0000  
## 1144 3.25 0.03 0.75 0.20 0.0870  
## 1145 4.02 0.00 0.70 0.33 0.0935  
## 1146 4.93 0.00 0.63 0.47 0.0000  
## 1147 3.42 0.26 1.26 2.42 0.0314  
## 1148 5.05 0.03 0.73 0.32 0.0681  
## 1149 3.52 0.00 0.65 0.22 0.1442  
## 1150 4.65 0.00 0.37 0.14 0.0341  
## 1151 5.94 0.00 0.33 0.33 0.1096  
## 1152 4.77 0.03 0.52 0.61 0.0647  
## 1153 4.88 0.00 0.27 0.35 0.0887  
## 1154 4.66 0.00 0.00 0.00 0.0000  
## 1155 5.72 0.07 0.69 0.14 0.0694  
## 1156 5.25 0.00 0.54 0.27 0.0149  
## 1157 5.36 0.00 0.43 0.00 0.1075  
## 1158 3.70 0.00 0.53 0.26 0.0000  
## 1159 3.91 0.15 0.94 0.80 0.1209  
## 1160 2.36 0.01 0.44 0.15 0.0199  
## 1161 2.17 0.00 0.43 0.24 0.0202  
## 1162 3.93 0.00 0.41 0.07 0.0000  
## 1163 3.04 0.12 0.77 1.02 0.0432  
## 1164 7.26 0.03 0.85 0.36 0.1366  
## 1165 4.40 0.00 0.92 0.10 0.0000  
## 1166 5.22 0.00 0.44 0.00 0.2180  
## 1167 6.46 0.08 0.44 0.77 0.1213  
## 1168 4.75 0.00 0.31 0.31 0.0000  
## 1169 5.17 0.05 0.79 0.51 0.0462  
## 1170 4.96 0.14 0.72 0.80 0.1449  
## 1171 5.33 0.00 0.54 0.16 0.1078  
## 1172 3.56 0.04 0.76 0.59 0.0414  
## 1173 6.94 0.00 0.65 0.37 0.0927  
## 1174 6.09 0.00 0.32 0.00 0.0000  
## 1175 3.01 0.00 0.41 0.31 0.0071  
## 1176 6.26 0.00 0.42 0.31 0.0000  
## 1177 7.17 0.00 0.46 0.07 0.0330  
## 1178 7.74 0.00 0.54 0.00 0.0813  
## 1179 10.51 0.00 0.25 0.00 0.0000  
## 1180 7.15 0.00 0.33 0.00 0.0555  
## 1181 6.40 0.00 0.24 0.00 0.1197  
## 1182 5.55 0.03 0.43 0.00 0.0332  
## 1183 7.86 0.00 0.21 0.00 0.0000  
## 1184 14.22 0.00 0.21 0.00 0.0000  
## 1185 5.94 0.00 0.29 0.00 0.1770  
## 1186 13.39 0.00 0.62 0.00 0.1240  
## 1187 8.13 0.00 0.34 0.00 0.2244  
## 1188 6.82 0.00 0.20 0.00 0.0654  
## 1189 12.02 0.05 0.21 0.00 0.0517  
## 1190 5.96 0.00 0.51 0.05 0.0464  
## 1191 7.00 0.00 0.36 0.00 0.0358  
## 1192 6.52 0.00 0.32 0.00 0.0000  
## 1193 4.22 0.01 0.36 0.10 0.0159  
## 1194 4.93 0.00 0.43 0.29 0.0267  
## 1195 5.80 0.00 0.13 0.00 0.2612  
## 1196 6.09 0.00 0.33 0.04 0.0409  
## 1197 6.09 0.00 0.15 0.07 0.0742  
## 1198 6.11 0.05 0.49 0.00 0.0970  
## 1199 7.82 0.00 0.23 0.02 0.0208  
## 1200 4.49 0.01 0.72 0.22 0.0383  
## 1201 5.10 0.03 1.00 0.26 0.0658  
## 1202 5.35 0.00 0.42 0.00 0.0598  
## 1203 5.93 0.00 0.26 0.13 0.1278  
## 1204 9.81 0.00 0.17 0.00 0.0000  
## 1205 6.45 0.01 0.42 0.19 0.0209  
## 1206 5.30 0.00 0.00 0.00 0.2858  
## 1207 8.02 0.00 0.37 0.00 0.0000  
## 1208 5.45 0.00 0.56 0.09 0.0000  
## 1209 6.42 0.00 0.21 0.00 0.1050  
## 1210 4.33 0.00 1.03 0.08 0.0623  
## 1211 4.17 0.00 0.16 0.00 0.0000  
## 1212 5.37 0.00 0.31 0.00 0.0440  
## 1213 5.65 0.00 0.38 0.03 0.0589  
## 1214 6.48 0.00 0.57 0.19 0.0686  
## 1215 4.89 0.00 0.25 0.00 0.0409  
## 1216 7.36 0.00 0.14 0.00 0.0567  
## 1217 10.88 0.00 0.43 0.00 0.0285  
## 1218 7.34 0.00 0.41 0.00 0.1035  
## 1219 5.19 0.00 0.59 0.03 0.0690  
## 1220 6.76 0.00 0.24 0.00 0.1438  
## 1221 6.27 0.00 0.10 0.00 0.1954  
## 1222 3.27 0.02 0.36 0.02 0.0201  
## 1223 5.54 0.00 0.30 0.00 0.0591  
## 1224 6.70 0.02 0.20 0.04 0.0000  
## 1225 8.52 0.00 0.08 0.00 0.0843  
## 1226 6.02 0.00 0.56 0.05 0.1282  
## 1227 3.99 0.00 0.12 0.03 0.0616  
## 1228 7.05 0.00 0.44 0.00 0.0800  
## 1229 6.99 0.00 0.15 0.00 0.1479  
## 1230 5.70 0.03 0.64 0.04 0.0192  
## 1231 7.45 0.00 0.00 0.00 0.4808  
## 1232 8.02 0.00 0.38 0.00 0.0634  
## 1233 5.73 0.00 0.40 0.00 0.0808  
## 1234 7.03 0.00 0.29 0.00 0.0730  
## 1235 5.88 0.00 0.32 0.00 0.0701  
## 1236 7.80 0.00 0.23 0.00 0.0460  
## 1237 9.61 0.00 0.05 0.00 0.0519  
## 1238 5.36 0.00 0.00 0.00 0.1065  
## 1239 7.24 0.03 0.45 0.28 0.0346  
## 1240 7.71 0.00 0.21 0.00 0.0700  
## 1241 5.07 0.02 0.58 0.33 0.0446  
## 1242 7.97 0.02 0.44 0.05 0.0700  
## 1243 4.74 0.00 0.20 0.00 0.0492  
## 1244 7.46 0.00 0.24 0.12 0.0000  
## 1245 7.63 0.00 0.22 0.00 0.2242  
## 1246 9.17 0.00 0.17 0.00 0.0835  
## 1247 5.41 0.00 0.23 0.00 0.0000  
## 1248 7.07 0.04 0.48 0.04 0.0403  
## 1249 8.46 0.00 0.34 0.17 0.0279  
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## 1251 6.53 0.06 0.31 0.12 0.0616  
## 1252 10.49 0.00 0.25 0.10 0.0510  
## 1253 8.81 0.00 0.25 0.00 0.0000  
## 1254 5.19 0.05 0.73 0.16 0.0231  
## 1255 5.95 0.02 0.78 0.19 0.0474  
## 1256 6.81 0.00 0.11 0.00 0.0000  
## 1257 4.62 0.00 0.25 0.09 0.0668  
## 1258 10.07 0.02 0.54 0.13 0.0431  
## 1259 5.61 0.09 0.75 0.31 0.0126  
## 1260 7.19 0.00 0.47 0.12 0.1169  
## 1261 6.61 0.00 0.33 0.00 0.0000  
## 1262 5.39 0.00 0.41 0.03 0.0375  
## 1263 12.40 0.07 0.42 0.21 0.1396  
## 1264 5.36 0.00 0.14 0.00 0.0000  
## 1265 7.25 0.00 0.29 0.22 0.0110  
## 1266 9.05 0.00 0.29 0.00 0.0000  
## 1267 4.65 0.02 0.64 0.15 0.0237  
## 1268 4.45 0.00 0.44 0.05 0.0973  
## 1269 4.48 0.00 0.64 0.14 0.0656  
## 1270 5.24 0.00 0.29 0.00 0.0585  
## 1271 9.83 0.04 0.13 0.04 0.0421  
## 1272 12.29 0.00 0.13 0.00 0.0000  
## 1273 9.97 0.00 0.29 0.06 0.0000  
## 1274 5.68 0.00 0.24 0.12 0.0000  
## 1275 5.01 0.00 0.09 0.00 0.0000  
## 1276 9.28 0.00 0.22 0.07 0.0000  
## 1277 7.00 0.03 0.28 0.17 0.0693  
## 1278 8.45 0.02 0.48 0.09 0.0383  
## 1279 12.13 0.00 0.21 0.21 0.0687  
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## 1281 6.27 0.00 0.36 0.12 0.1202  
## 1282 8.98 0.00 0.63 0.18 0.0906  
## 1283 14.59 0.00 0.10 0.00 0.0000  
## 1284 6.13 0.00 0.24 0.00 0.0000  
## 1285 4.98 0.00 0.30 0.00 0.0000  
## 1286 7.97 0.00 0.45 0.27 0.0248  
## 1287 9.24 0.00 0.20 0.00 0.0000  
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## 1289 6.02 0.02 0.63 0.26 0.0493  
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## 1292 7.71 0.00 0.31 0.36 0.0279  
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## 1294 7.03 0.03 0.42 0.24 0.0000  
## 1295 6.51 0.00 0.10 0.00 0.0000  
## 1296 5.87 0.00 0.34 0.00 0.0845  
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## 1298 8.93 0.00 0.22 0.09 0.0000  
## 1299 8.15 0.00 0.40 0.07 0.0000  
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## 1301 7.02 0.00 0.34 0.11 0.0000  
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## 1303 7.31 0.00 0.23 0.04 0.0388  
## 1304 6.48 0.00 0.16 0.08 0.0000  
## 1305 7.95 0.00 0.38 0.00 0.0000  
## 1306 6.82 0.00 0.18 0.00 0.0000  
## 1307 9.03 0.05 0.14 0.00 0.0000  
## 1308 7.78 0.00 0.06 0.12 0.0000  
## 1309 7.25 0.00 0.10 0.00 0.0000  
## 1310 7.58 0.00 0.22 0.00 0.0000  
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## 1312 7.55 0.00 0.06 0.32 0.0641  
## 1313 7.31 0.00 0.47 0.05 0.0521  
## 1314 6.40 0.02 0.59 0.07 0.0235  
## 1315 5.69 0.05 0.68 0.41 0.0675  
## 1316 7.09 0.00 0.34 0.28 0.0000  
## 1317 4.32 0.01 0.57 0.09 0.0094  
## 1318 3.47 0.02 1.08 0.61 0.0190  
## 1319 8.64 0.00 0.43 0.00 0.0000  
## 1320 8.17 0.00 0.10 0.00 0.0971  
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## 1322 4.26 0.00 0.13 0.00 0.0000  
## 1323 12.48 0.00 0.48 0.00 0.0000  
## 1324 5.45 0.00 0.00 0.00 0.0000  
## 1325 5.97 0.02 0.61 0.11 0.0222  
## 1326 9.69 0.00 0.31 0.00 0.0000  
## 1327 7.04 0.00 0.17 0.00 0.0000  
## 1328 5.94 0.03 0.42 0.08 0.0602  
## 1329 7.70 0.03 0.88 0.29 0.0241  
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## 1332 6.61 0.00 0.21 0.41 0.0000  
## 1333 7.06 0.03 0.63 0.16 0.0784  
## 1334 11.41 0.00 0.00 0.00 0.0000  
## 1335 8.09 0.00 0.34 0.00 0.0000  
## 1336 7.49 0.00 0.24 0.07 0.0345  
## 1337 12.05 0.00 0.12 0.03 0.0000  
## 1338 8.02 0.05 0.36 0.34 0.0356  
## 1339 10.65 0.04 0.20 0.08 0.0000  
## 1340 8.45 0.00 0.44 0.05 0.1962  
## 1341 6.22 0.00 0.25 0.05 0.0000  
## 1342 8.55 0.00 0.45 0.00 0.0000  
## 1343 5.94 0.00 0.25 0.10 0.0251  
## 1344 7.99 0.00 0.49 0.11 0.0000  
## 1345 6.62 0.09 0.63 0.55 0.0538  
## 1346 6.34 0.00 0.53 0.53 0.1055  
## 1347 5.40 0.00 0.61 0.38 0.0000  
## 1348 6.06 0.00 0.91 0.46 0.0000  
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## 1350 7.32 0.00 0.64 0.27 0.0916  
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## 1352 8.48 0.00 0.18 0.35 0.0000  
## 1353 8.63 0.00 0.87 0.22 0.0000  
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## 1355 6.10 0.00 1.08 0.09 0.0901  
## 1356 6.02 0.02 0.66 0.67 0.0472  
## 1357 3.92 0.03 0.68 0.73 0.0257  
## 1358 6.35 0.00 0.44 0.00 0.0736  
## 1359 9.88 0.00 0.00 0.30 0.0000  
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## 1361 6.86 0.00 0.00 0.00 0.0000  
## 1362 7.14 0.00 0.87 0.48 0.1291  
## 1363 5.19 0.04 0.88 0.60 0.1424  
## 1364 7.81 0.00 0.84 1.27 0.0000  
## 1365 12.45 0.00 0.69 0.64 0.0983  
## 1366 8.49 0.00 0.11 0.45 0.0000  
## 1367 10.62 0.00 0.22 0.66 0.0000  
## 1368 10.64 0.00 0.00 0.43 0.2142  
## 1369 8.07 0.00 0.00 0.26 0.0000  
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## 1371 5.85 0.00 0.00 0.00 0.5949  
## 1372 7.10 0.00 0.29 0.59 0.0000  
## 1373 7.78 0.02 0.49 0.24 0.0667  
## 1374 7.39 0.00 0.45 0.45 0.0906  
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## 1378 8.23 0.00 0.31 0.31 0.3067  
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## 1384 5.87 0.00 0.27 0.41 0.1359  
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## 1387 5.73 0.03 0.73 0.64 0.1916  
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## 1389 5.79 0.00 0.78 1.57 0.0000  
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## 1396 5.53 0.00 0.36 0.12 0.0000  
## 1397 6.18 0.00 0.26 0.52 0.0000  
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## 1399 6.92 0.00 0.44 1.21 0.1098  
## 1400 5.47 0.00 0.00 0.16 0.0000  
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## 1409 3.12 0.00 1.20 0.60 0.0000  
## 1410 6.20 0.00 0.00 0.00 0.0000  
## 1411 6.32 0.00 0.43 1.07 0.0000  
## 1412 6.36 0.00 0.65 0.51 0.0467  
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## 1414 7.15 0.00 1.02 0.51 0.0000  
## 1415 13.84 0.00 0.00 0.00 0.0000  
## 1416 6.34 0.00 0.00 0.00 0.0000  
## 1417 4.08 0.00 0.88 0.57 0.0655  
## 1418 3.65 0.00 0.65 0.43 0.0000  
## 1419 4.83 0.00 0.30 0.91 0.0000  
## 1420 3.71 0.00 0.00 0.36 0.0000  
## 1421 4.96 0.10 1.00 1.00 0.2009  
## 1422 6.24 0.00 0.31 1.08 0.0000  
## 1423 6.23 0.00 0.42 0.85 0.1409  
## 1424 4.44 0.00 0.45 0.15 0.0000  
## 1425 7.18 0.00 0.63 0.75 0.1253  
## 1426 11.13 0.00 0.29 0.57 0.2861  
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## 1428 4.92 0.03 1.29 1.03 0.2872  
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## 1430 11.92 0.00 0.43 0.22 0.0000  
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## 1432 6.37 0.00 0.43 0.28 0.1420  
## 1433 6.58 0.00 0.73 0.48 0.0000  
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## 1435 7.97 0.00 0.35 1.05 0.0000  
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## 1437 7.84 0.00 0.38 0.19 0.0000  
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## 1439 8.53 0.00 0.39 0.64 0.1284  
## 1440 5.70 0.00 0.43 0.79 0.0715  
## 1441 3.64 0.01 0.68 0.31 0.0371  
## 1442 5.40 0.05 0.32 0.14 0.0456  
## 1443 7.68 0.08 0.62 0.57 0.0850  
## 1444 4.99 0.00 0.47 0.41 0.0582  
## 1445 7.49 0.00 0.58 0.58 0.0000  
## 1446 7.71 0.00 0.00 0.00 0.0000  
## 1447 7.12 0.00 0.20 0.20 0.0000  
## 1448 4.20 0.00 0.69 0.55 0.0000  
## 1449 5.51 0.00 0.97 0.97 0.2437  
## 1450 5.69 0.00 0.33 0.72 0.0478  
## 1451 7.60 0.00 0.00 0.58 0.0000  
## 1452 5.13 0.00 0.81 0.67 0.0740  
## 1453 5.95 0.00 0.63 0.32 0.0394  
## 1454 8.30 0.00 0.73 0.45 0.0611  
## 1455 4.17 0.00 0.47 0.32 0.0189  
## 1456 8.78 0.00 0.97 0.97 0.0000  
## 1457 3.72 0.00 0.41 0.06 0.1179  
## 1458 6.76 0.00 0.18 0.18 0.1814  
## 1459 9.36 0.00 0.19 0.58 0.1938  
## 1460 8.53 0.00 0.21 0.12 0.0686  
## 1461 16.03 0.00 0.44 0.22 0.2213  
## 1462 12.26 0.00 0.19 0.44 0.0416  
## 1463 7.40 0.00 0.46 0.30 0.1521  
## 1464 14.79 0.00 0.00 0.00 0.0000  
## 1465 6.39 0.02 0.70 0.45 0.0168  
## 1466 6.96 0.11 0.32 0.11 0.1056  
## 1467 6.92 0.04 1.00 0.57 0.0535  
## 1468 6.08 0.03 0.71 0.21 0.0650  
## 1469 6.88 0.01 0.80 0.45 0.0525  
## 1470 9.03 0.00 0.71 0.61 0.0642  
## 1471 7.36 0.00 0.84 1.71 0.0551  
## 1472 4.87 0.02 0.82 0.65 0.0382  
## 1473 6.24 0.02 0.79 0.78 0.0655  
## 1474 5.16 0.02 0.77 0.58 0.0257  
## 1475 8.64 0.00 0.39 0.28 0.0462  
## 1476 6.62 0.03 0.62 0.37 0.0608  
## 1477 6.21 0.04 1.33 0.33 0.0279  
## 1478 5.07 0.06 0.81 0.41 0.0335  
## 1479 7.49 0.04 0.60 0.33 0.0328  
## 1480 5.46 0.03 0.94 0.46 0.0312  
## 1481 4.62 0.02 0.45 0.20 0.0512  
## 1482 4.53 0.01 0.66 0.13 0.0194  
## 1483 5.69 0.02 0.88 0.50 0.0240  
## 1484 4.11 0.04 0.84 0.55 0.0354  
## 1485 4.93 0.02 0.91 0.27 0.0219  
## 1486 4.69 0.05 1.17 0.39 0.0346  
## 1487 6.57 0.03 0.62 0.21 0.0212  
## 1488 5.94 0.01 0.73 0.22 0.0360  
## 1489 6.22 0.03 0.34 0.10 0.0641  
## 1490 5.19 0.01 0.73 0.14 0.0143  
## 1491 4.89 0.03 0.88 0.35 0.0288  
## 1492 5.05 0.02 0.75 0.23 0.0568  
## 1493 6.07 0.07 0.86 0.70 0.0205  
## 1494 6.77 0.03 0.54 0.20 0.0309  
## 1495 9.54 0.00 0.42 0.25 0.0000  
## 1496 3.71 0.04 0.72 0.25 0.0615  
## 1497 5.92 0.06 0.61 0.21 0.0181  
## 1498 4.70 0.03 0.34 0.19 0.0342  
## 1499 11.46 0.00 0.48 0.70 0.2222  
## 1500 7.50 0.00 0.47 0.47 0.2339  
## 1501 9.12 0.00 1.46 0.49 0.4871  
## 1502 4.15 0.01 0.39 0.22 0.0139  
## 1503 6.06 0.05 0.35 0.05 0.0502  
## 1504 2.28 0.00 0.92 0.57 0.0000  
## 1505 5.26 0.00 0.38 0.17 0.0000  
## 1506 5.38 0.03 0.72 0.25 0.0424  
## 1507 7.40 0.00 0.67 0.00 0.2233  
## 1508 6.83 0.00 0.37 0.00 0.1220  
## 1509 10.20 0.03 0.78 0.29 0.1038  
## 1510 6.53 0.01 1.02 0.45 0.0243  
## 1511 7.14 0.00 0.55 0.44 0.1474  
## 1512 8.14 0.02 0.88 0.45 0.0329  
## 1513 4.86 0.00 0.54 0.06 0.0605  
## 1514 10.12 0.03 0.52 0.52 0.0614  
## 1515 6.50 0.00 0.00 0.00 0.0000  
## 1516 5.65 0.03 0.30 0.18 0.0000  
## 1517 3.35 0.01 0.92 1.46 0.0362  
## 1518 4.26 0.02 0.33 0.31 0.0877  
## 1519 5.22 0.01 0.71 0.65 0.0528  
## 1520 4.85 0.01 0.46 0.54 0.1318  
## 1521 6.23 0.00 0.57 0.55 0.0555  
## 1522 5.73 0.00 0.34 0.26 0.0214  
## 1523 4.15 0.00 0.63 0.58 0.0376  
## 1524 6.79 0.02 0.39 0.66 0.0672  
## 1525 7.57 0.02 0.25 0.27 0.0455  
## 1526 4.74 0.01 0.86 1.14 0.0512  
## 1527 6.00 0.00 0.33 0.52 0.0271  
## 1528 7.95 0.00 0.25 0.45 0.0379  
## 1529 4.80 0.02 0.35 0.40 0.0526  
## 1530 6.60 0.00 0.38 0.53 0.0424  
## 1531 9.02 0.00 0.00 0.46 0.0000  
## 1532 4.97 0.00 0.39 0.15 0.0328  
## 1533 5.20 0.00 0.50 0.38 0.0481  
## 1534 6.36 0.00 0.37 0.47 0.0284  
## 1535 5.66 0.04 0.61 0.47 0.1017  
## 1536 4.70 0.02 1.22 1.24 0.0155  
## 1537 5.05 0.04 1.84 1.77 0.0527  
## 1538 4.39 0.00 0.51 0.32 0.0720  
## 1539 5.35 0.01 0.55 0.60 0.0484  
## 1540 4.93 0.02 0.77 1.07 0.0261  
## 1541 5.76 0.03 0.57 0.62 0.0545  
## 1542 4.52 0.01 0.69 0.53 0.0363  
## 1543 5.39 0.00 0.23 0.15 0.0250  
## 1544 5.25 0.01 0.46 0.33 0.0688  
## 1545 4.84 0.02 0.53 1.84 0.0341  
## 1546 5.62 0.02 0.59 0.31 0.0406  
## 1547 3.83 0.01 0.44 0.41 0.0316  
## 1548 4.05 0.02 0.98 0.25 0.0276  
## 1549 3.93 0.02 0.39 0.72 0.0560  
## 1550 3.59 0.00 0.69 0.57 0.0087  
## 1551 5.34 0.00 0.29 0.16 0.0964  
## 1552 6.86 0.00 0.28 0.40 0.0565  
## 1553 4.66 0.00 0.29 0.21 0.0588  
## 1554 5.76 0.00 0.35 0.49 0.0423  
## 1555 4.44 0.02 0.83 0.77 0.0251  
## 1556 5.21 0.21 0.42 0.24 0.0528  
## 1557 6.07 0.00 0.19 0.23 0.0418  
## 1558 3.19 0.01 0.58 0.57 0.0396  
## 1559 6.80 0.01 0.68 0.28 0.0563  
## 1560 5.47 0.02 0.94 1.66 0.0314  
## 1561 4.83 0.00 0.47 0.37 0.0336  
## 1562 4.71 0.01 1.11 0.36 0.0528  
## 1563 5.94 0.00 0.48 0.25 0.0507  
## 1564 10.17 0.00 0.48 0.12 0.1211  
## 1565 5.95 0.00 0.53 0.46 0.0233  
## 1566 8.82 0.00 0.24 0.24 0.0000  
## 1567 7.42 0.09 0.18 0.18 0.0893  
## 1568 6.89 0.00 0.21 0.17 0.0415  
## 1569 7.95 0.06 0.34 0.06 0.0569  
## 1570 9.06 0.00 0.11 0.32 0.0000  
## 1571 6.26 0.00 0.40 0.33 0.0000  
## 1572 8.62 0.01 0.38 0.44 0.0134  
## 1573 7.84 0.04 0.77 1.26 0.0607  
## 1574 6.62 0.00 0.46 0.42 0.0442  
## 1575 5.27 0.02 0.49 0.63 0.0226  
## 1576 8.93 0.00 0.30 0.23 0.0122  
## 1577 4.96 0.00 0.00 0.00 0.0000  
## 1578 5.74 0.00 0.78 0.69 0.0144  
## 1579 9.11 0.00 0.18 0.18 0.0000  
## 1580 7.26 0.01 0.59 0.76 0.0125  
## 1581 9.97 0.00 0.31 0.34 0.0688  
## 1582 10.02 0.07 0.36 0.29 0.0000  
## 1583 7.54 0.00 0.44 0.73 0.0303  
## 1584 4.99 0.01 0.60 0.69 0.0395  
## 1585 4.72 0.00 0.21 0.07 0.0000  
## 1586 4.26 0.00 0.67 0.37 0.0266  
## 1587 6.63 0.00 0.39 0.28 0.0231  
## 1588 4.10 0.02 0.74 1.42 0.0244  
## 1589 7.55 0.00 0.28 0.31 0.0000  
## 1590 5.88 0.01 0.64 1.65 0.0417  
## 1591 7.36 0.01 0.15 0.13 0.0417  
## 1592 7.12 0.00 0.55 0.52 0.0088  
## 1593 5.63 0.00 0.24 0.24 0.1180  
## 1594 6.25 0.00 0.31 0.40 0.0165  
## 1595 5.83 0.00 0.33 0.10 0.0478  
## 1596 6.62 0.02 0.58 0.75 0.0296  
## 1597 7.92 0.00 0.34 0.46 0.0606  
## 1598 4.55 0.01 0.47 0.72 0.0073  
## 1599 7.44 0.00 0.44 0.30 0.0953  
## 1600 8.72 0.01 0.60 0.72 0.0253  
## 1601 6.45 0.00 0.39 0.48 0.0866  
## 1602 4.29 0.00 0.11 0.43 0.0358  
## 1603 7.89 0.00 0.00 0.21 0.0000  
## 1604 5.64 0.00 0.48 0.50 0.0227  
## 1605 4.51 0.00 0.25 0.48 0.0092  
## 1606 9.92 0.00 0.00 0.32 0.0000  
## 1607 6.49 0.06 0.51 0.69 0.0000  
## 1608 5.95 0.00 0.52 0.32 0.0359  
## 1609 7.23 0.00 0.39 0.59 0.0437  
## 1610 9.18 0.00 0.56 0.22 0.0556  
## 1611 8.31 0.00 0.32 0.32 0.0451  
## 1612 3.98 0.01 0.70 0.94 0.0159  
## 1613 7.47 0.07 0.74 0.87 0.0000  
## 1614 8.59 0.01 0.60 1.21 0.0290  
## 1615 5.98 0.00 0.63 0.61 0.0316  
## 1616 5.36 0.02 0.77 1.22 0.0380  
## 1617 3.11 0.00 1.01 0.60 0.0098  
## 1618 4.36 0.03 2.26 0.78 0.0268  
## 1619 8.77 0.00 0.31 0.24 0.0000  
## 1620 5.93 0.00 0.45 0.69 0.0000  
## 1621 4.76 0.00 0.34 0.28 0.0309  
## 1622 6.92 0.00 0.15 0.29 0.0000  
## 1623 6.55 0.00 0.40 0.63 0.0751  
## 1624 10.08 0.00 0.33 0.48 0.0951  
## 1625 8.89 0.03 0.36 0.31 0.0208  
## 1626 7.17 0.00 0.28 0.63 0.0615  
## 1627 9.52 0.00 0.37 0.28 0.0876  
## 1628 6.75 0.01 0.48 0.58 0.0351  
## 1629 7.99 0.00 0.25 0.45 0.0447  
## 1630 7.32 0.00 0.28 0.28 0.0158  
## 1631 7.73 0.00 0.29 0.89 0.0289  
## 1632 5.94 0.03 0.32 0.25 0.0474  
## 1633 6.32 0.00 0.15 0.24 0.0219  
## 1634 7.80 0.01 0.40 0.53 0.0140  
## 1635 8.23 0.00 0.85 1.13 0.0705  
## 1636 8.11 0.00 0.41 0.20 0.0290  
## 1637 6.91 0.00 0.00 0.00 0.0000  
## 1638 6.30 0.04 0.54 0.89 0.0224  
## 1639 3.58 0.01 0.72 0.72 0.0212  
## 1640 6.15 0.00 0.17 0.26 0.0000  
## 1641 4.77 0.00 0.71 0.57 0.0177  
## 1642 5.26 0.02 0.56 0.60 0.0161  
## 1643 7.83 0.01 0.37 0.51 0.0147  
## 1644 5.66 0.01 0.39 0.54 0.0122  
## 1645 7.12 0.00 0.21 0.13 0.0266  
## 1646 10.06 0.00 0.33 0.22 0.0000  
## 1647 5.17 0.00 0.46 0.91 0.0000  
## 1648 4.60 0.00 0.15 0.30 0.0000  
## 1649 5.11 0.00 0.32 0.00 0.0000  
## 1650 3.70 0.00 1.67 0.33 0.0000  
## 1651 3.22 0.00 0.00 0.00 0.0000  
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## 1653 2.47 0.05 0.80 0.87 0.0653  
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## 1656 7.09 0.00 0.00 0.44 0.0000  
## 1657 3.21 0.00 0.00 0.00 0.0000  
## 1658 3.83 0.00 0.31 0.63 0.0000  
## 1659 7.38 0.00 0.00 0.58 0.5757  
## 1660 2.96 0.10 0.88 0.69 0.0720  
## 1661 6.17 0.00 0.45 1.35 0.0000  
## 1662 5.81 0.00 0.45 0.45 0.0000  
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## 1664 3.98 0.00 0.00 0.00 0.0000  
## 1665 5.49 0.00 0.00 0.00 0.0000  
## 1666 5.82 0.00 0.00 0.35 0.0000  
## 1667 7.12 0.00 0.00 1.64 0.0000  
## 1668 2.61 0.07 0.33 0.07 0.0000  
## 1669 7.00 0.00 0.21 0.53 0.0000  
## 1670 2.83 0.00 0.86 0.73 0.0000  
## 1671 4.66 0.00 0.29 0.03 0.0000  
## 1672 7.64 0.00 0.00 0.36 0.0000  
## 1673 4.69 0.00 0.00 0.52 0.0000  
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## 1675 4.42 0.00 0.97 0.44 0.0878  
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## 1677 5.21 0.00 0.44 0.00 0.0000  
## 1678 4.20 0.00 0.68 0.31 0.0000  
## 1679 6.90 0.00 0.78 0.49 0.1412  
## 1680 4.84 0.00 0.00 0.00 0.0000  
## 1681 3.74 0.00 0.48 0.00 0.0000  
## 1682 3.24 0.00 0.44 0.40 0.0000  
## 1683 4.00 0.05 0.73 0.39 0.0488  
## 1684 3.94 0.00 0.00 1.42 0.0000  
## 1685 6.07 0.00 0.25 0.25 0.0000  
## 1686 4.50 0.00 0.67 0.38 0.0958  
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## 1689 2.88 0.00 0.54 0.28 0.0258  
## 1690 6.86 0.00 0.36 0.00 0.0363  
## 1691 6.28 0.05 0.58 1.03 0.0588  
## 1692 4.67 0.00 0.41 0.15 0.0375  
## 1693 6.69 0.00 0.37 0.25 0.0414  
## 1694 5.56 0.05 0.24 0.21 0.0458  
## 1695 4.76 0.02 0.33 0.13 0.0438  
## 1696 6.75 0.03 0.44 0.26 0.0758  
## 1697 6.38 0.00 0.18 0.12 0.0921  
## 1698 5.52 0.03 0.52 0.19 0.0674  
## 1699 6.54 0.00 0.33 0.00 0.0372  
## 1700 5.09 0.03 0.33 0.10 0.0513  
## 1701 6.11 0.01 0.58 0.34 0.0449  
## 1702 6.01 0.02 0.31 0.17 0.0477  
## 1703 7.96 0.03 0.27 0.08 0.0791  
## 1704 6.69 0.00 0.33 0.14 0.0274  
## 1705 6.66 0.00 0.60 0.22 0.0484  
## 1706 6.43 0.18 1.08 0.79 0.0595  
## 1707 6.56 0.04 0.41 0.12 0.0391  
## 1708 4.79 0.03 0.45 0.26 0.1059  
## 1709 5.69 0.03 0.65 0.18 0.0407  
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## 1712 5.56 0.00 0.45 0.07 0.0477  
## 1713 6.03 0.03 0.34 0.23 0.0671  
## 1714 6.38 0.05 0.48 0.15 0.0751  
## 1715 5.74 0.05 0.89 0.41 0.0235  
## 1716 5.72 0.00 0.52 0.28 0.1289  
## 1717 4.28 0.08 0.49 0.40 0.0530  
## 1718 6.34 0.00 0.22 0.19 0.0318  
## 1719 9.61 0.00 0.13 0.13 0.1332  
## 1720 4.21 0.00 0.45 0.04 0.1115  
## 1721 6.43 0.00 0.39 0.09 0.0462  
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## 1723 4.76 0.00 0.34 0.07 0.0909  
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## 1726 9.25 0.00 0.52 0.32 0.0462  
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## 1728 6.74 0.02 0.69 0.27 0.0479  
## 1729 7.98 0.00 0.32 0.05 0.0508  
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## 1731 6.30 0.00 0.38 0.13 0.0882  
## 1732 6.35 0.04 0.48 0.34 0.0416  
## 1733 5.35 0.00 0.27 0.09 0.0224  
## 1734 9.06 0.15 0.73 0.37 0.0973  
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## 1736 6.67 0.02 0.55 0.18 0.0276  
## 1737 6.43 0.00 0.22 0.00 0.0441  
## 1738 4.98 0.05 0.34 0.19 0.0242  
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## 1742 8.92 0.00 0.21 0.07 0.0000  
## 1743 5.83 0.00 0.14 0.03 0.0847  
## 1744 7.23 0.02 0.64 0.31 0.0581  
## 1745 8.56 0.00 0.21 0.07 0.0696  
## 1746 7.61 0.00 0.42 0.07 0.0248  
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## 1756 6.32 0.02 0.42 0.05 0.0182  
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## 1763 8.87 0.00 0.23 0.00 0.0771  
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## 1765 6.58 0.07 0.59 0.85 0.0838  
## 1766 5.58 0.02 0.45 0.15 0.0778  
## 1767 5.35 0.03 0.52 0.05 0.0547  
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## 1770 7.65 0.00 0.27 0.18 0.0911  
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## 1772 6.68 0.05 0.51 0.19 0.1397  
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## 1774 6.40 0.00 0.37 0.22 0.0612  
## 1775 8.06 0.00 0.21 0.10 0.0000  
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## 1777 6.70 0.00 0.27 0.34 0.0683  
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## 1779 3.83 0.03 0.47 0.41 0.0314  
## 1780 7.95 0.00 0.18 0.54 0.0000  
## 1781 7.56 0.01 1.13 0.45 0.0413  
## 1782 9.24 0.00 0.56 0.21 0.2818  
## 1783 3.71 0.00 0.52 0.21 0.0349  
## 1784 8.99 0.00 0.39 0.12 0.0927  
## 1785 7.77 0.00 0.21 0.00 0.0000  
## 1786 7.49 0.00 1.04 0.00 0.0000  
## 1787 5.16 0.03 0.59 0.46 0.0493  
## 1788 7.40 0.04 0.33 0.29 0.0361  
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## 1791 6.38 0.00 1.23 0.35 0.0000  
## 1792 5.42 0.39 0.39 0.00 0.0000  
## 1793 4.65 0.00 0.28 0.83 0.0000  
## 1794 6.82 0.00 0.32 0.40 0.1581  
## 1795 5.97 0.00 0.38 0.23 0.0762  
## 1796 3.69 0.04 0.33 0.21 0.1234  
## 1797 7.55 0.00 0.83 0.65 0.0924  
## 1798 3.59 0.06 0.76 0.25 0.0633  
## 1799 6.46 0.00 0.34 0.46 0.1144  
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## 1801 7.48 0.04 0.30 0.34 0.0401  
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## 1803 3.75 0.00 0.12 0.16 0.0205  
## 1804 4.40 0.02 0.34 0.24 0.0000  
## 1805 6.93 0.03 0.37 0.21 0.0610  
## 1806 7.40 0.00 0.51 0.25 0.1528  
## 1807 5.43 0.00 0.13 0.13 0.1319  
## 1808 8.07 0.00 0.12 0.18 0.0000  
## 1809 7.67 0.00 0.34 0.07 0.0729  
## 1810 6.66 0.07 0.43 0.00 0.0000  
## 1811 6.61 0.09 0.58 0.28 0.0444  
## 1812 6.51 0.20 0.10 0.20 0.0992  
## 1813 8.72 0.00 0.08 0.42 0.0000  
## 1814 4.77 0.11 1.06 0.86 0.0261  
## 1815 6.96 0.00 0.50 0.05 0.0262  
## 1816 7.14 0.00 0.30 0.17 0.0214  
## 1817 6.08 0.00 0.23 0.29 0.1943  
## 1818 7.52 0.00 0.85 0.37 0.0000  
## 1819 3.83 0.02 0.56 0.33 0.0367  
## 1820 6.38 0.03 0.70 1.17 0.1042  
## 1821 5.93 0.00 0.62 0.26 0.0137  
## 1822 7.62 0.00 0.27 0.36 0.0000  
## 1823 7.66 0.00 0.28 0.28 0.0000  
## 1824 4.23 0.01 0.46 0.20 0.0215  
## 1825 7.02 0.00 0.41 0.41 0.0825  
## 1826 7.33 0.07 0.60 0.30 0.0464  
## 1827 5.40 0.00 0.35 0.05 0.0500  
## 1828 9.51 0.00 0.28 0.41 0.0000  
## 1829 4.97 0.11 0.70 0.67 0.0213  
## 1830 9.17 0.08 0.54 0.17 0.0574  
## 1831 5.26 0.00 0.18 0.00 0.0000  
## 1832 5.99 0.00 0.35 0.46 0.1151  
## 1833 5.06 0.00 0.56 0.25 0.1009  
## 1834 8.01 0.00 0.49 0.61 0.0000  
## 1835 4.82 0.04 0.72 0.79 0.0429  
## 1836 5.48 0.00 0.84 0.26 0.0190  
## 1837 8.42 0.00 0.72 0.37 0.0495  
## 1838 5.16 0.02 0.61 0.26 0.0567  
## 1839 8.37 0.02 0.87 0.28 0.0464  
## 1840 9.18 0.00 0.48 0.28 0.0000  
## 1841 6.90 0.00 0.84 0.76 0.0396  
## 1842 9.07 0.00 0.78 0.44 0.0180  
## 1843 9.71 0.00 0.00 1.01 1.0127  
## 1844 7.29 0.00 0.81 0.14 0.1356  
## 1845 5.20 0.00 1.29 0.56 0.0430  
## 1846 6.41 0.03 0.85 0.64 0.0270  
## 1847 5.55 0.00 0.56 0.32 0.0000  
## 1848 8.42 0.03 0.92 0.45 0.0436  
## 1849 10.60 0.00 0.38 0.25 0.0000  
## 1850 6.69 0.01 0.75 0.52 0.0522  
## 1851 10.78 0.02 0.57 0.65 0.0791  
## 1852 6.03 0.02 0.61 0.24 0.0229  
## 1853 5.56 0.03 0.77 0.74 0.0323  
## 1854 4.83 0.01 0.84 0.46 0.0115  
## 1855 3.54 0.00 0.34 0.94 0.3419  
## 1856 5.60 0.00 0.42 0.23 0.0114  
## 1857 8.37 0.00 0.00 0.00 0.0000  
## 1858 7.43 0.00 0.66 0.55 0.0364  
## 1859 4.74 0.01 0.62 0.27 0.0257  
## 1860 5.18 0.00 0.64 0.11 0.0377  
## 1861 7.98 0.00 0.42 0.28 0.2785  
## 1862 4.95 0.00 0.76 0.42 0.0379  
## 1863 4.39 0.01 0.93 0.45 0.0149  
## 1864 5.55 0.00 0.59 0.29 0.0464  
## 1865 5.62 0.00 0.34 0.35 0.0292  
## 1866 5.27 0.02 0.97 1.28 0.0495  
## 1867 5.17 0.00 0.31 0.36 0.0623  
## 1868 7.10 0.00 0.48 0.63 0.0209  
## 1869 4.92 0.01 0.57 0.48 0.0546  
## 1870 5.48 0.01 0.64 1.52 0.0331  
## 1871 6.67 0.00 0.56 1.00 0.0830  
## 1872 4.68 0.01 0.88 0.33 0.0255  
## 1873 4.54 0.01 0.75 0.57 0.0582  
## 1874 5.13 0.00 0.60 1.05 0.0155  
## 1875 7.04 0.00 0.69 1.15 0.0000  
## 1876 2.77 0.01 0.55 0.87 0.0433  
## 1877 4.75 0.01 0.69 0.49 0.0399  
## 1878 4.90 0.00 0.44 0.42 0.1044  
## 1879 6.22 0.01 0.48 1.25 0.0636  
## 1880 6.29 0.02 0.48 0.37 0.0463  
## 1881 4.55 0.01 0.72 0.73 0.0313  
## 1882 4.18 0.03 0.75 1.38 0.0500  
## 1883 5.07 0.02 0.83 0.34 0.0282  
## 1884 6.83 0.00 0.27 0.81 0.1351  
## 1885 5.04 0.00 0.72 1.06 0.0708  
## 1886 6.43 0.00 0.63 0.56 0.0780  
## 1887 12.33 0.00 0.00 0.14 0.1436  
## 1888 5.07 0.02 0.47 0.49 0.0257  
## 1889 5.23 0.00 0.21 0.55 0.0690  
## 1890 4.70 0.00 0.36 0.36 0.1123  
## 1891 6.31 0.02 0.31 0.52 0.0224  
## 1892 4.05 0.00 0.42 0.48 0.0359  
## 1893 4.46 0.00 0.16 0.37 0.0000  
## 1894 5.02 0.01 0.81 1.02 0.0383  
## 1895 5.37 0.01 0.58 0.51 0.0238  
## 1896 5.89 0.00 0.59 0.28 0.0353  
## 1897 4.56 0.01 0.54 0.56 0.0282  
## 1898 5.44 0.03 0.88 1.25 0.0324  
## 1899 5.53 0.01 0.66 0.83 0.0221  
## 1900 5.98 0.02 0.51 1.34 0.0530  
## 1901 6.98 0.00 0.42 0.57 0.0744  
## 1902 7.59 0.01 0.56 0.64 0.0737  
## 1903 4.98 0.00 0.39 0.89 0.0000  
## 1904 6.06 0.01 0.38 0.43 0.0294  
## 1905 7.11 0.22 1.55 13.14 0.1109  
## 1906 5.31 0.01 0.61 1.11 0.0490  
## 1907 7.47 0.01 0.40 0.34 0.0332  
## 1908 4.30 0.00 0.22 0.11 0.0216  
## 1909 4.84 0.03 0.80 0.64 0.0431  
## 1910 6.62 0.00 0.14 0.09 0.0178  
## 1911 6.48 0.00 0.43 1.22 0.0608  
## 1912 5.90 0.00 0.47 0.46 0.0426  
## 1913 5.95 0.00 0.50 0.55 0.0000  
## 1914 5.40 0.00 0.44 0.36 0.0411  
## 1915 11.75 0.00 0.17 0.34 0.0000  
## 1916 6.45 0.00 0.20 0.12 0.0000  
## 1917 5.88 0.00 0.52 0.35 0.0991  
## 1918 5.94 0.05 0.59 1.54 0.0452  
## 1919 7.44 0.02 0.40 0.93 0.0596  
## 1920 6.22 0.03 0.46 0.62 0.1799  
## 1921 5.20 0.01 0.67 0.35 0.0484  
## 1922 8.14 0.02 0.59 0.33 0.0195  
## 1923 5.78 0.02 0.67 0.47 0.0490  
## 1924 4.91 0.04 0.45 0.53 0.0753  
## 1925 5.18 0.01 0.56 0.49 0.0311  
## 1926 5.75 0.04 0.37 0.08 0.0620  
## 1927 5.95 0.03 0.78 0.52 0.0121  
## 1928 5.19 0.05 1.01 0.26 0.0733  
## 1929 5.21 0.06 0.60 0.65 0.0550  
## 1930 7.07 0.09 0.64 0.38 0.0080  
## 1931 9.51 0.00 0.12 0.08 0.0410  
## 1932 6.12 0.01 0.41 0.20 0.0174  
## 1933 9.05 0.00 0.36 0.24 0.1200  
## 1934 6.11 0.01 0.43 0.19 0.0098  
## 1935 6.16 0.00 0.29 0.14 0.0481  
## 1936 8.61 0.01 1.12 0.38 0.0204  
## 1937 4.37 0.01 0.27 0.13 0.0085  
## 1938 8.07 0.00 0.34 0.07 0.0687  
## 1939 5.10 0.05 1.09 1.18 0.0144  
## 1940 6.81 0.00 0.26 0.10 0.0174  
## 1941 9.20 0.00 0.12 0.09 0.0310  
## 1942 6.48 0.00 0.29 0.02 0.0219  
## 1943 7.41 0.00 0.27 0.18 0.0299  
## 1944 9.33 0.00 0.35 0.27 0.0534  
## 1945 7.69 0.02 0.30 0.18 0.0301  
## 1946 4.93 0.00 0.68 0.29 0.0121  
## 1947 8.08 0.00 0.22 0.15 0.0369  
## 1948 6.41 0.00 0.60 0.37 0.0218  
## 1949 6.84 0.00 0.55 0.16 0.0158  
## 1950 6.29 0.01 0.67 0.49 0.0131  
## 1951 6.44 0.00 0.41 0.13 0.0317  
## 1952 5.46 0.00 0.31 0.15 0.0148  
## 1953 7.24 0.00 0.36 0.13 0.0099  
## 1954 7.53 0.00 0.27 0.10 0.0147  
## 1955 15.88 0.00 0.11 0.11 0.1060  
## 1956 8.96 0.00 0.20 0.23 0.0332  
## 1957 9.58 0.00 0.31 0.00 0.0391  
## 1958 6.96 0.00 0.31 0.10 0.0260  
## 1959 7.53 0.02 0.55 0.34 0.0125  
## 1960 6.51 0.00 0.52 0.13 0.0078  
## 1961 3.78 0.04 0.91 0.44 0.0310  
## 1962 6.87 0.01 0.50 0.33 0.0061  
## 1963 8.33 0.00 0.22 0.04 0.0370  
## 1964 6.71 0.03 0.17 0.10 0.0671  
## 1965 4.54 0.01 0.48 0.19 0.0138  
## 1966 7.67 0.00 0.00 0.00 0.3663  
## 1967 5.82 0.00 0.49 0.81 0.1080  
## 1968 6.37 0.00 0.44 1.17 0.0000  
## 1969 5.27 0.00 0.45 0.25 0.0562  
## 1970 5.96 0.03 0.59 0.80 0.0774  
## 1971 6.33 0.00 0.38 0.38 0.0000  
## 1972 7.01 0.00 0.57 0.09 0.0000  
## 1973 6.65 0.11 0.43 0.97 0.0000  
## 1974 3.85 0.00 0.50 0.25 0.0000  
## 1975 7.57 0.00 0.11 0.22 0.0000  
## 1976 8.19 0.00 0.91 0.30 0.1514  
## 1977 8.30 0.00 0.19 0.56 0.1871  
## 1978 3.64 0.00 0.69 1.73 0.0000  
## 1979 7.85 0.00 0.34 1.38 0.0000  
## 1980 8.35 0.00 0.00 0.79 0.0000  
## 1981 7.41 0.15 0.75 1.19 0.2982  
## 1982 7.16 0.00 0.71 0.29 0.0000  
## 1983 6.87 0.00 0.47 0.71 0.0000  
## 1984 12.45 0.00 0.54 0.54 0.0000  
## 1985 6.08 0.00 0.00 0.00 0.0000  
## 1986 8.34 0.00 0.64 0.64 0.3198  
## 1987 6.15 0.00 0.69 0.75 0.0577  
## 1988 8.28 0.00 0.27 0.69 0.0000  
## 1989 12.77 0.00 2.02 0.00 0.0000  
## 1990 6.35 0.00 0.60 0.80 0.0000  
## 1991 6.61 0.00 0.61 0.57 0.0381  
## 1992 3.96 0.02 0.94 0.62 0.0159  
## 1993 6.40 0.00 0.00 1.05 0.0000  
## 1994 11.38 0.00 0.42 0.85 0.0000  
## 1995 5.97 0.00 0.20 0.00 0.0000  
## 1996 4.09 0.00 0.70 0.63 0.0350  
## 1997 5.02 0.00 2.72 0.91 0.4541  
## 1998 4.01 0.06 0.55 0.93 0.0356  
## 1999 6.60 0.00 0.31 0.15 0.1533  
## population\_density days\_over\_90\_f median\_hh\_income.x median\_er\_dist  
## 1 93.60 104 67565 2.25  
## 2 137.30 97 71135 6.01  
## 3 28.28 104 38866 5.58  
## 4 16.33 103 33124 4.89  
## 5 25.39 103 42268 3.51  
## 6 56.03 87 39318 4.67  
## 7 47.04 85 50388 7.42  
## 8 13.96 103 41649 11.35  
## 9 19.27 105 44178 3.55  
## 10 22.00 66 44763 6.48  
## 11 26.70 66 50134 6.45  
## 12 92.68 77 54185 1.85  
## 13 14.37 105 34664 8.76  
## 14 16.43 87 46509 7.66  
## 15 113.44 76 51844 6.05  
## 16 87.85 108 48493 5.37  
## 17 91.92 49 47156 8.53  
## 18 131.81 103 62524 6.60  
## 19 38.90 104 41212 2.29  
## 20 191.97 87 47872 4.17  
## 21 26.14 89 45937 4.86  
## 22 49.83 75 40448 4.23  
## 23 22.91 102 41836 8.43  
## 24 30.48 107 51126 9.15  
## 25 181.64 106 54391 2.88  
## 26 48.02 62 46606 7.38  
## 27 592.54 90 57802 2.94  
## 28 22.91 92 40204 7.05  
## 29 139.02 76 52293 3.43  
## 30 47.73 77 48924 8.77  
## 31 269.05 95 58963 5.31  
## 32 173.09 73 70850 6.25  
## 33 13.88 107 37499 17.69  
## 34 30.29 105 37736 2.61  
## 35 458.69 72 67810 6.68  
## 36 19.59 105 43198 10.58  
## 37 40.17 81 44333 3.85  
## 38 169.90 64 51417 5.02  
## 39 336.74 100 50871 2.95  
## 40 20.48 105 38812 7.32  
## 41 288.34 107 49607 2.00  
## 42 205.90 78 55688 2.55  
## 43 12.65 103 33712 8.70  
## 44 22.75 95 41870 10.78  
## 45 49.51 100 43141 3.36  
## 46 39.16 81 46679 5.75  
## 47 90.36 105 40821 2.94  
## 48 140.81 85 61973 8.99  
## 49 13.94 104 32275 5.54  
## 50 108.91 94 44802 3.70  
## 51 56.45 90 46654 4.14  
## 52 158.12 98 56610 3.16  
## 53 80.66 87 46519 8.46  
## 54 15.12 106 36346 10.51  
## 55 11.88 108 31909 8.77  
## 56 38.68 76 46453 14.47  
## 57 6.40 0 36319 14.14  
## 58 20.36 49 51171 3.17  
## 59 7.64 0 57146 3.93  
## 60 11.32 54 49280 4.57  
## 61 8.29 91 55419 4.56  
## 62 5.14 73 67530 1.58  
## 63 4.68 129 41637 21.23  
## 64 479.56 134 71799 2.43  
## 65 15.83 117 46678 3.25  
## 66 11.08 0 46698 8.63  
## 67 113.02 112 56551 2.98  
## 68 83.41 131 66992 3.72  
## 69 37.69 51 44402 7.98  
## 70 28.61 31 58860 3.49  
## 71 38.44 138 54278 6.51  
## 72 17.90 99 51186 2.06  
## 73 21.61 103 44677 9.06  
## 74 75.23 74 44833 5.63  
## 75 322.64 63 78678 3.60  
## 76 44.55 60 45397 3.68  
## 77 16.38 106 35992 4.23  
## 78 25.80 99 46464 1.49  
## 79 23.01 79 43723 2.36  
## 80 45.24 74 49964 5.82  
## 81 13.49 101 57697 15.11  
## 82 30.83 102 44925 5.26  
## 83 37.86 95 47049 5.72  
## 84 154.25 81 51797 2.30  
## 85 106.03 89 54534 4.84  
## 86 78.94 88 47545 2.52  
## 87 26.90 86 40587 5.33  
## 88 10.66 100 34649 14.07  
## 89 15.57 105 37421 1.10  
## 90 192.82 97 57367 3.12  
## 91 146.16 82 46459 3.50  
## 92 28.85 98 62077 21.10  
## 93 78.28 78 53821 2.23  
## 94 54.75 94 49582 4.87  
## 95 22.59 97 40566 3.57  
## 96 23.43 70 41787 12.11  
## 97 26.69 89 40789 6.82  
## 98 78.09 101 40588 3.52  
## 99 12.71 104 40007 4.97  
## 100 28.10 79 41188 4.94  
## 101 14.94 91 32502 7.75  
## 102 23.73 102 47903 16.53  
## 103 23.24 105 47125 4.65  
## 104 30.49 92 43577 2.25  
## 105 94.84 99 59623 9.87  
## 106 27.80 73 39888 6.01  
## 107 69.73 103 43634 1.52  
## 108 45.89 88 47892 2.54  
## 109 11.32 95 35833 14.77  
## 110 11.49 72 42751 27.99  
## 111 9.44 42 40698 17.56  
## 112 32.20 103 46374 6.74  
## 113 18.76 95 46317 12.43  
## 114 26.29 92 35167 3.25  
## 115 17.85 84 43133 12.66  
## 116 31.32 87 36150 16.58  
## 117 78.81 92 46350 3.47  
## 118 12.57 95 48478 18.48  
## 119 518.37 97 56171 2.09  
## 120 27.51 78 46495 2.64  
## 121 40.14 91 37759 3.72  
## 122 167.22 93 70550 5.19  
## 123 11.50 73 41230 4.72  
## 124 11.86 53 33814 19.62  
## 125 240.35 96 48627 2.83  
## 126 30.07 97 45838 4.71  
## 127 28.48 74 40437 7.92  
## 128 20.75 60 36148 5.49  
## 129 37.62 103 47857 6.05  
## 130 23.36 63 42345 7.73  
## 131 250.88 59 57712 1.91  
## 132 76.13 96 43765 4.83  
## 133 11.05 95 37634 20.84  
## 134 23.03 94 48728 4.49  
## 135 2253.12 9 113518 1.61  
## 136 65.63 65 68141 8.42  
## 137 136.48 89 54718 1.91  
## 138 44.93 67 66329 12.94  
## 139 18.68 105 59422 9.33  
## 140 1600.98 15 106484 2.03  
## 141 27.52 0 47442 1.76  
## 142 111.45 29 87792 5.66  
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## 144 21.36 101 57779 9.54  
## 145 38.14 0 56071 2.74  
## 146 43.25 140 47599 1.88  
## 147 1.76 0 55981 3.36  
## 148 109.71 117 58583 3.76  
## 149 108.62 118 60319 3.01  
## 150 6.74 0 63803 7.30  
## 151 2473.53 2 75624 1.40  
## 152 72.97 107 68744 16.62  
## 153 11.95 26 56887 8.23  
## 154 24.84 6 53176 2.62  
## 155 2.24 0 46838 3.46  
## 156 4.72 0 73204 8.37  
## 157 131.94 0 85031 2.35  
## 158 185.19 27 92149 2.53  
## 159 103.80 13 74158 4.59  
## 160 3998.72 0 98786 1.70  
## 161 278.45 92 100662 4.12  
## 162 7.38 0 58489 2.24  
## 163 338.16 71 76409 2.69  
## 164 107.76 56 65984 2.83  
## 165 789.50 2 87126 2.25  
## 166 85.59 0 79455 5.15  
## 167 613.71 13 93015 2.28  
## 168 47.48 83 59108 3.48  
## 169 3.04 0 59422 13.92  
## 170 6.93 0 49441 8.83  
## 171 540.92 36 83678 2.13  
## 172 315.31 5 87366 2.31  
## 173 159.81 106 65791 1.83  
## 174 21.76 97 61571 15.59  
## 175 3.94 3 45113 13.44  
## 176 24.38 42 63336 6.42  
## 177 459.37 28 90961 2.49  
## 178 215.60 97 80668 2.74  
## 179 122.66 104 56278 4.60  
## 180 436.99 19 73615 2.42  
## 181 22.35 0 50390 1.46  
## 182 814.65 5 82381 2.52  
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## 188 1.12 48 56383 4.70  
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## 191 6.69 0 60485 22.94  
## 192 26.93 0 53553 12.63  
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## 194 409.74 0 122290 2.77  
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## 196 14.17 0 107139 16.03  
## 197 31.11 0 52414 2.35  
## 198 20.22 0 79958 4.06  
## 199 40.71 0 79622 15.00  
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## 202 4.25 0 49502 11.11  
## 203 757.21 0 90097 3.39  
## 204 3.35 50 54642 13.97  
## 205 20.81 0 61518 0.85  
## 206 33.22 0 66080 6.74  
## 207 135.04 3 80344 2.82  
## 208 3.00 0 46281 3.97  
## 209 2.18 12 50169 9.78  
## 210 12.12 49 55717 2.04  
## 211 45.95 24 64141 2.96  
## 212 2.77 0 63128 0.72  
## 213 12.94 0 54053 4.83  
## 214 14.49 72 46235 1.35  
## 215 9.04 0 74492 21.76  
## 216 8.36 0 77598 25.15  
## 217 6.31 58 57385 1.07  
## 218 18.52 0 93634 2.50  
## 219 7.35 75 47463 6.44  
## 220 70.15 38 50885 1.95  
## 221 1.98 0 64039 0.64  
## 222 12.39 0 51416 1.50  
## 223 10.72 0 82330 3.06  
## 224 50.52 0 91079 18.46  
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## 226 79.15 35 77937 4.48  
## 227 4.23 54 82124 2.54  
## 228 1510.96 24 98828 1.97  
## 229 1213.93 28 73476 2.30  
## 230 196.79 9 79512 4.42  
## 231 1416.07 19 72517 2.69  
## 232 401.27 19 77202 4.59  
## 233 367.85 11 87247 4.54  
## 234 227.43 16 66349 6.40  
## 235 305.64 34 61538 5.55  
## 236 245.95 28 69829 7.85  
## 237 11483.30 59 91957 1.02  
## 238 306.19 125 51995 2.47  
## 239 49.00 121 61514 3.43  
## 240 237.37 104 61332 5.27  
## 241 94.31 122 48260 6.71  
## 242 585.24 125 65871 3.26  
## 243 1614.90 133 63901 1.69  
## 244 25.25 113 43994 5.06  
## 245 272.97 128 58368 3.20  
## 246 254.22 129 48574 10.23  
## 247 356.09 120 72520 3.85  
## 248 189.96 130 81895 5.07  
## 249 88.89 122 46670 4.25  
## 250 58.70 136 45807 4.68  
## 251 23.74 123 41450 39.19  
## 252 482.03 85 57089 3.14  
## 253 232.11 120 67054 5.38  
## 254 88.67 113 42698 6.66  
## 255 52.17 126 52000 24.49  
## 256 17.08 137 45328 15.97  
## 257 27.23 112 51593 9.75  
## 258 27.99 121 41871 6.93  
## 259 42.39 132 46264 5.53  
## 260 35.88 139 45652 14.02  
## 261 403.21 125 52108 3.47  
## 262 102.76 135 48922 3.71  
## 263 1420.28 128 65272 2.66  
## 264 40.79 113 41969 8.09  
## 265 312.17 124 72934 4.08  
## 266 51.63 115 44108 6.31  
## 267 23.87 122 54354 19.72  
## 268 15.78 123 41635 18.39  
## 269 374.25 128 58501 10.77  
## 270 968.72 130 66140 4.93  
## 271 436.64 115 61403 3.72  
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## 274 26.64 121 41650 7.24  
## 275 530.25 125 63328 3.51  
## 276 226.77 127 48553 7.74  
## 277 294.99 118 72736 4.57  
## 278 1424.04 132 59259 1.71  
## 279 76.43 121 68584 5.16  
## 280 132.21 112 75123 7.94  
## 281 223.00 101 65977 2.95  
## 282 54.10 131 48028 11.81  
## 283 273.94 130 63018 3.61  
## 284 754.50 127 68200 2.52  
## 285 3547.63 113 61532 1.85  
## 286 392.57 128 54591 4.71  
## 287 101.30 122 36527 9.52  
## 288 425.23 118 94343 6.22  
## 289 561.37 119 59023 4.54  
## 290 177.39 96 71583 6.04  
## 291 769.36 126 66138 3.09  
## 292 1508.48 127 71930 2.90  
## 293 233.23 129 60278 7.70  
## 294 20.81 117 45527 6.14  
## 295 62.75 123 49313 5.36  
## 296 495.87 122 55463 2.85  
## 297 54.18 117 64671 19.87  
## 298 68.43 108 74108 7.18  
## 299 42.92 111 44661 7.10  
## 300 24.25 113 39633 15.24  
## 301 39.21 109 41756 3.27  
## 302 9.04 112 43696 12.17  
## 303 174.22 97 49350 2.97  
## 304 504.81 76 64460 5.34  
## 305 231.98 74 64980 6.65  
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## 1910 7.03 15.54  
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## 1912 3.86 8.33  
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## 1915 6.54 34.03  
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## 1917 3.05 29.04  
## 1918 19.81 44.20  
## 1919 4.08 7.25  
## 1920 5.26 4.40  
## 1921 2.05 6.28  
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## 1923 6.84 10.29  
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## 1928 1.67 2.85  
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## 1931 1.96 13.74  
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## 1935 2.25 31.51  
## 1936 8.07 20.55  
## 1937 5.57 5.19  
## 1938 5.88 10.77  
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## 1940 2.56 20.77  
## 1941 4.86 23.74  
## 1942 2.22 20.31  
## 1943 4.35 7.93  
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## 1946 3.63 7.83  
## 1947 3.85 16.82  
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## 1949 4.17 28.32  
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## 1952 5.28 21.72  
## 1953 2.56 9.26  
## 1954 3.76 9.82  
## 1955 3.53 19.45  
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## 1959 4.02 24.65  
## 1960 3.19 15.24  
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## 1963 2.19 28.35  
## 1964 4.39 23.81  
## 1965 2.82 11.91  
## 1966 2.64 55.06  
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## 1970 1.21 1.24  
## 1971 8.28 39.35  
## 1972 1.30 21.51  
## 1973 1.75 30.20  
## 1974 8.72 47.67  
## 1975 3.67 44.12  
## 1976 1.75 41.24  
## 1977 3.33 10.28  
## 1978 7.03 11.83  
## 1979 2.09 35.92  
## 1980 5.92 34.56  
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## 1983 5.04 8.99  
## 1984 8.15 71.91  
## 1985 4.98 19.60  
## 1986 22.02 69.36  
## 1987 0.96 58.86  
## 1988 6.21 16.51  
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## 1990 4.15 40.93  
## 1991 12.85 7.78  
## 1992 5.46 4.29  
## 1993 7.76 42.01  
## 1994 17.91 40.56  
## 1995 6.05 29.54  
## 1996 15.28 20.57  
## 1997 1.23 47.79  
## 1998 2.24 2.31  
## 1999 4.16 4.18  
## percent\_grandparents\_as\_guardians pct\_adult\_smokers pct\_obese\_adults  
## 1 4.901316 0.183 0.373  
## 2 5.961440 0.169 0.326  
## 3 11.165644 0.259 0.464  
## 4 15.405228 0.255 0.483  
## 5 9.496840 0.223 0.454  
## 6 14.975107 0.217 0.412  
## 7 6.014640 0.227 0.413  
## 8 14.557530 0.220 0.414  
## 9 10.771800 0.233 0.406  
## 10 1.390481 0.233 0.386  
## 11 4.333131 0.221 0.383  
## 12 3.946492 0.208 0.370  
## 13 8.519220 0.239 0.428  
## 14 8.453304 0.217 0.415  
## 15 3.314854 0.209 0.380  
## 16 4.262024 0.205 0.392  
## 17 6.547617 0.230 0.421  
## 18 4.866425 0.186 0.371  
## 19 7.150715 0.245 0.436  
## 20 7.698600 0.206 0.411  
## 21 11.061441 0.237 0.394  
## 22 4.640614 0.226 0.384  
## 23 19.193053 0.237 0.473  
## 24 9.622048 0.210 0.421  
## 25 5.265128 0.205 0.391  
## 26 9.911160 0.222 0.401  
## 27 7.094688 0.161 0.389  
## 28 7.758820 0.222 0.392  
## 29 8.227974 0.190 0.394  
## 30 10.112310 0.228 0.386  
## 31 5.623150 0.167 0.368  
## 32 5.408656 0.185 0.349  
## 33 13.889988 0.240 0.488  
## 34 11.072042 0.213 0.473  
## 35 5.141544 0.157 0.353  
## 36 6.364215 0.210 0.435  
## 37 8.269948 0.229 0.379  
## 38 5.738092 0.210 0.397  
## 39 7.125533 0.204 0.394  
## 40 9.518046 0.233 0.439  
## 41 5.441099 0.172 0.490  
## 42 6.812013 0.207 0.401  
## 43 9.018974 0.273 0.509  
## 44 3.269150 0.234 0.423  
## 45 4.948560 0.200 0.387  
## 46 3.302832 0.211 0.428  
## 47 3.619980 0.215 0.419  
## 48 7.029932 0.204 0.383  
## 49 7.999095 0.227 0.477  
## 50 9.796160 0.224 0.419  
## 51 3.806452 0.215 0.403  
## 52 5.648450 0.182 0.416  
## 53 10.745904 0.228 0.364  
## 54 10.378980 0.227 0.427  
## 55 17.754630 0.252 0.513  
## 56 5.643321 0.239 0.401  
## 57 9.429685 0.262 0.361  
## 58 7.934895 0.175 0.310  
## 59 7.422868 0.178 0.279  
## 60 10.097620 0.232 0.323  
## 61 8.290000 0.194 0.332  
## 62 1.858192 0.164 0.326  
## 63 7.349490 0.213 0.358  
## 64 3.772320 0.146 0.306  
## 65 7.470954 0.210 0.357  
## 66 11.937244 0.236 0.344  
## 67 4.812738 0.158 0.293  
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## 69 5.163029 0.150 0.348  
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## 71 5.189184 0.164 0.405  
## 72 4.768852 0.224 0.382  
## 73 5.952985 0.251 0.396  
## 74 4.569150 0.221 0.334  
## 75 2.745120 0.162 0.295  
## 76 2.572176 0.205 0.352  
## 77 11.892384 0.268 0.475  
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## 80 9.201055 0.223 0.367  
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## 84 5.544518 0.206 0.403  
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## 86 4.887240 0.223 0.466  
## 87 8.834672 0.238 0.405  
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## 91 6.838335 0.206 0.309  
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## 94 8.203755 0.229 0.363  
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## 96 8.056113 0.242 0.376  
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## 102 4.086019 0.252 0.397  
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## 107 7.842432 0.224 0.398  
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## 110 16.429756 0.236 0.369  
## 111 3.200208 0.218 0.339  
## 112 11.885601 0.244 0.404  
## 113 4.296996 0.223 0.371  
## 114 13.636080 0.248 0.479  
## 115 7.338247 0.224 0.362  
## 116 9.525600 0.260 0.414  
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## 119 5.213806 0.182 0.360  
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## 123 8.928997 0.246 0.374  
## 124 7.908694 0.270 0.390  
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## 127 5.533798 0.251 0.400  
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## 129 5.322000 0.212 0.434  
## 130 8.536440 0.242 0.379  
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## 132 5.350240 0.218 0.381  
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## 134 7.579975 0.234 0.383  
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## 140 2.099930 0.100 0.281  
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## 142 2.524088 0.119 0.282  
## 143 3.636208 0.142 0.346  
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## 145 3.356496 0.158 0.311  
## 146 9.939684 0.140 0.362  
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## 149 2.254060 0.150 0.351  
## 150 5.163508 0.171 0.318  
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## 153 6.085056 0.145 0.310  
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## 155 2.406222 0.168 0.324  
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## 157 1.835240 0.124 0.317  
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## 159 3.573888 0.122 0.282  
## 160 2.058491 0.105 0.230  
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## 163 3.320064 0.130 0.347  
## 164 4.448274 0.135 0.391  
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## 166 2.557294 0.116 0.279  
## 167 2.355938 0.114 0.275  
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## 645 1.829871 0.181 0.356  
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## 662 1.249857 0.159 0.359  
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## 672 1.552500 0.176 0.362  
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## 674 1.447924 0.185 0.397  
## 675 1.997445 0.180 0.374  
## 676 1.177125 0.184 0.394  
## 677 1.824853 0.184 0.372  
## 678 1.630800 0.189 0.369  
## 679 0.811506 0.171 0.389  
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## 812 5.748680 0.225 0.360  
## 813 6.390000 0.249 0.395  
## 814 5.129089 0.269 0.377  
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## 823 7.533662 0.255 0.388  
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## 825 5.703429 0.215 0.396  
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## 1122 1.824804 0.190 0.344  
## 1123 3.449680 0.205 0.333  
## 1124 2.244736 0.187 0.315  
## 1125 2.194806 0.219 0.357  
## 1126 1.541430 0.178 0.355  
## 1127 2.095000 0.188 0.336  
## 1128 3.867608 0.209 0.333  
## 1129 1.524000 0.191 0.332  
## 1130 0.325000 0.177 0.363  
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## 1133 0.601489 0.203 0.329  
## 1134 1.135365 0.185 0.354  
## 1135 0.875745 0.187 0.366  
## 1136 11.830037 0.290 0.438  
## 1137 2.231184 0.193 0.343  
## 1138 2.096034 0.201 0.351  
## 1139 2.685236 0.191 0.319  
## 1140 4.459776 0.220 0.378  
## 1141 1.452550 0.200 0.362  
## 1142 1.708945 0.211 0.345  
## 1143 1.525110 0.189 0.363  
## 1144 3.002463 0.171 0.335  
## 1145 1.741299 0.195 0.392  
## 1146 1.177080 0.189 0.395  
## 1147 2.828243 0.141 0.322  
## 1148 1.294012 0.180 0.310  
## 1149 2.408991 0.194 0.307  
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## 1152 1.962984 0.190 0.393  
## 1153 0.571376 0.187 0.332  
## 1154 1.833425 0.202 0.371  
## 1155 1.042570 0.203 0.367  
## 1156 1.378858 0.180 0.349  
## 1157 2.010720 0.183 0.336  
## 1158 0.678861 0.195 0.344  
## 1159 2.125866 0.210 0.322  
## 1160 1.082484 0.137 0.335  
## 1161 1.265880 0.170 0.364  
## 1162 2.351190 0.191 0.342  
## 1163 1.445514 0.178 0.341  
## 1164 0.770350 0.178 0.339  
## 1165 0.966744 0.181 0.347  
## 1166 3.302000 0.200 0.368  
## 1167 1.195324 0.216 0.377  
## 1168 4.434593 0.201 0.373  
## 1169 1.097180 0.175 0.330  
## 1170 2.061255 0.214 0.343  
## 1171 4.723642 0.195 0.377  
## 1172 1.310734 0.133 0.295  
## 1173 3.947379 0.194 0.381  
## 1174 1.683000 0.180 0.356  
## 1175 1.007175 0.165 0.327  
## 1176 2.298601 0.202 0.362  
## 1177 8.293244 0.230 0.435  
## 1178 8.102619 0.217 0.378  
## 1179 10.428000 0.226 0.421  
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## 1183 10.229921 0.231 0.449  
## 1184 6.736240 0.211 0.365  
## 1185 9.341640 0.230 0.418  
## 1186 3.758836 0.207 0.399  
## 1187 19.205680 0.237 0.484  
## 1188 6.447810 0.213 0.400  
## 1189 5.259072 0.208 0.467  
## 1190 13.919500 0.244 0.472  
## 1191 8.116950 0.203 0.427  
## 1192 5.948218 0.228 0.440  
## 1193 4.968711 0.182 0.383  
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## 1203 13.402656 0.268 0.499  
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## 1205 7.832376 0.188 0.375  
## 1206 11.822760 0.224 0.482  
## 1207 23.133558 0.220 0.466  
## 1208 5.629794 0.203 0.418  
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## 1212 3.798750 0.235 0.409  
## 1213 6.576375 0.208 0.423  
## 1214 5.492940 0.187 0.403  
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## 1217 10.007025 0.206 0.407  
## 1218 21.304083 0.235 0.421  
## 1219 13.084005 0.242 0.395  
## 1220 8.082965 0.208 0.431  
## 1221 6.506280 0.240 0.463  
## 1222 5.047705 0.175 0.367  
## 1223 14.566233 0.232 0.433  
## 1224 12.400808 0.202 0.356  
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## 1226 9.285215 0.232 0.421  
## 1227 8.162520 0.199 0.388  
## 1228 8.587261 0.225 0.377  
## 1229 21.101542 0.258 0.482  
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## 1237 6.225620 0.232 0.410  
## 1238 11.604915 0.236 0.491  
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## 1247 6.023730 0.186 0.381  
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## 1252 3.500350 0.244 0.399  
## 1253 3.370928 0.260 0.391  
## 1254 7.268415 0.231 0.369  
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## 1270 6.876379 0.213 0.373  
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## 1276 6.259022 0.256 0.376  
## 1277 6.668046 0.282 0.395  
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## 1290 4.152285 0.198 0.373  
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## 1292 3.648944 0.246 0.415  
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## 1295 3.883803 0.245 0.397  
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## 1297 9.209625 0.225 0.388  
## 1298 4.217760 0.271 0.393  
## 1299 3.971400 0.213 0.368  
## 1300 11.903125 0.233 0.398  
## 1301 4.660512 0.242 0.389  
## 1302 3.219678 0.223 0.399  
## 1303 8.747460 0.225 0.372  
## 1304 12.928461 0.294 0.441  
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## 1322 4.592720 0.233 0.391  
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## 1352 7.712208 0.197 0.334  
## 1353 7.660050 0.222 0.337  
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## 1368 4.435920 0.199 0.316  
## 1369 3.390339 0.202 0.307  
## 1370 4.644185 0.196 0.325  
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## 1372 1.950000 0.208 0.322  
## 1373 2.874690 0.173 0.299  
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## 1376 17.723694 0.218 0.366  
## 1377 3.759938 0.218 0.309  
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## 1379 3.514800 0.192 0.301  
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## 1382 2.674525 0.184 0.298  
## 1383 1.196250 0.204 0.300  
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## 1512 7.207920 0.122 0.216  
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## 1514 12.373256 0.143 0.245  
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## 1516 7.270155 0.162 0.336  
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## 1610 6.504897 0.195 0.326  
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## 1612 3.141855 0.139 0.292  
## 1613 2.989326 0.201 0.306  
## 1614 3.283049 0.160 0.305  
## 1615 5.411274 0.200 0.384  
## 1616 3.329840 0.161 0.277  
## 1617 3.571976 0.196 0.337  
## 1618 1.036070 0.128 0.272  
## 1619 16.379160 0.202 0.339  
## 1620 2.007768 0.187 0.385  
## 1621 6.129760 0.189 0.309  
## 1622 13.281184 0.200 0.344  
## 1623 3.907692 0.203 0.367  
## 1624 7.331805 0.166 0.322  
## 1625 4.863792 0.209 0.357  
## 1626 7.224750 0.273 0.442  
## 1627 7.014060 0.220 0.359  
## 1628 6.843512 0.205 0.364  
## 1629 7.540995 0.227 0.327  
## 1630 3.946827 0.217 0.355  
## 1631 7.532238 0.258 0.386  
## 1632 5.479016 0.200 0.384  
## 1633 5.385093 0.223 0.361  
## 1634 5.404266 0.217 0.322  
## 1635 13.749120 0.245 0.359  
## 1636 6.152328 0.181 0.288  
## 1637 7.265646 0.229 0.387  
## 1638 7.234346 0.220 0.398  
## 1639 1.711910 0.115 0.281  
## 1640 2.907992 0.233 0.424  
## 1641 2.775552 0.184 0.314  
## 1642 6.136702 0.208 0.389  
## 1643 5.434649 0.219 0.374  
## 1644 8.377356 0.219 0.415  
## 1645 2.832336 0.217 0.331  
## 1646 1.857942 0.205 0.334  
## 1647 3.250000 0.196 0.340  
## 1648 19.779200 0.299 0.416  
## 1649 1.817633 0.175 0.366  
## 1650 3.286945 0.187 0.338  
## 1651 5.474150 0.176 0.328  
## 1652 1.072940 0.151 0.319  
## 1653 0.729372 0.158 0.339  
## 1654 2.981300 0.182 0.332  
## 1655 0.350000 0.168 0.339  
## 1656 15.088289 0.203 0.349  
## 1657 3.778556 0.190 0.353  
## 1658 0.620000 0.191 0.344  
## 1659 0.830000 0.184 0.361  
## 1660 1.440874 0.173 0.345  
## 1661 4.705420 0.198 0.360  
## 1662 5.253165 0.174 0.338  
## 1663 7.158231 0.204 0.359  
## 1664 4.320162 0.207 0.365  
## 1665 0.927682 0.187 0.356  
## 1666 1.227850 0.187 0.369  
## 1667 1.840023 0.208 0.360  
## 1668 2.315904 0.194 0.349  
## 1669 1.991312 0.184 0.354  
## 1670 1.806336 0.179 0.356  
## 1671 1.443664 0.175 0.358  
## 1672 0.988790 0.180 0.346  
## 1673 0.000000 0.187 0.354  
## 1674 2.599065 0.192 0.365  
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## 1676 1.632000 0.186 0.374  
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## 1683 0.190139 0.193 0.336  
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## 1693 6.235010 0.272 0.417  
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## 1695 3.490932 0.220 0.371  
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## 1697 6.891129 0.266 0.376  
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## 1704 4.120676 0.271 0.396  
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## 1707 2.940684 0.249 0.383  
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## 1729 6.279702 0.263 0.403  
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## 1736 2.046217 0.184 0.362  
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## 1746 4.563340 0.210 0.332  
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## 1748 4.991630 0.267 0.367  
## 1749 4.554792 0.237 0.395  
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## 1763 9.323925 0.308 0.386  
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## 1796 5.682250 0.198 0.378  
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## 1799 5.693514 0.243 0.398  
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## 1810 5.893408 0.235 0.391  
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## 1814 4.180659 0.181 0.365  
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## 1817 7.320726 0.265 0.400  
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## 1819 3.660525 0.207 0.374  
## 1820 7.274358 0.209 0.400  
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## 1825 10.498709 0.277 0.414  
## 1826 3.918160 0.225 0.410  
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## 1830 3.135555 0.206 0.358  
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## 1856 0.762955 0.153 0.355  
## 1857 2.141812 0.176 0.294  
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## 1859 2.184024 0.181 0.336  
## 1860 1.845860 0.177 0.322  
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## 1862 1.701264 0.173 0.294  
## 1863 1.569267 0.118 0.276  
## 1864 4.923625 0.158 0.308  
## 1865 2.975960 0.192 0.335  
## 1866 2.739300 0.156 0.329  
## 1867 2.956742 0.215 0.398  
## 1868 3.239792 0.218 0.340  
## 1869 2.454817 0.182 0.373  
## 1870 3.544444 0.204 0.315  
## 1871 1.715076 0.220 0.361  
## 1872 2.871648 0.151 0.255  
## 1873 2.317936 0.161 0.328  
## 1874 4.486320 0.208 0.332  
## 1875 2.050392 0.246 0.362  
## 1876 1.833982 0.172 0.312  
## 1877 1.528692 0.129 0.299  
## 1878 1.332496 0.217 0.365  
## 1879 4.339440 0.222 0.339  
## 1880 4.442515 0.198 0.347  
## 1881 2.620080 0.162 0.321  
## 1882 4.420384 0.183 0.320  
## 1883 3.621068 0.158 0.300  
## 1884 4.493558 0.210 0.315  
## 1885 2.619581 0.196 0.381  
## 1886 5.418417 0.234 0.345  
## 1887 6.629549 0.241 0.403  
## 1888 1.983600 0.193 0.400  
## 1889 3.679506 0.217 0.359  
## 1890 5.948404 0.215 0.364  
## 1891 5.575932 0.213 0.367  
## 1892 3.025242 0.211 0.355  
## 1893 1.767150 0.223 0.347  
## 1894 2.427892 0.193 0.319  
## 1895 1.701278 0.183 0.338  
## 1896 4.303206 0.208 0.372  
## 1897 2.601450 0.191 0.363  
## 1898 2.984027 0.173 0.364  
## 1899 4.060066 0.201 0.355  
## 1900 2.361920 0.196 0.346  
## 1901 3.380128 0.218 0.367  
## 1902 3.934106 0.212 0.335  
## 1903 4.584543 0.236 0.353  
## 1904 5.038482 0.182 0.323  
## 1905 4.305134 0.186 0.322  
## 1906 3.110190 0.173 0.313  
## 1907 3.272220 0.220 0.367  
## 1908 3.495456 0.207 0.336  
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## 1944 9.563373 0.224 0.395  
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## 1948 7.511570 0.202 0.415  
## 1949 10.067250 0.184 0.350  
## 1950 4.495778 0.165 0.327  
## 1951 10.188680 0.208 0.406  
## 1952 6.950480 0.192 0.403  
## 1953 3.422160 0.175 0.362  
## 1954 6.591529 0.233 0.351  
## 1955 12.933200 0.201 0.440  
## 1956 4.705580 0.241 0.459  
## 1957 4.780692 0.277 0.462  
## 1958 2.727486 0.210 0.404  
## 1959 6.920581 0.194 0.357  
## 1960 5.259381 0.193 0.309  
## 1961 4.401164 0.154 0.379  
## 1962 3.849210 0.186 0.363  
## 1963 7.813548 0.232 0.390  
## 1964 12.573096 0.225 0.442  
## 1965 4.161309 0.163 0.351  
## 1966 0.400000 0.173 0.334  
## 1967 0.587850 0.187 0.353  
## 1968 1.813825 0.215 0.370  
## 1969 1.072588 0.140 0.330  
## 1970 1.122170 0.173 0.321  
## 1971 5.873750 0.187 0.346  
## 1972 2.437092 0.197 0.338  
## 1973 12.953820 0.237 0.368  
## 1974 28.905916 0.313 0.435  
## 1975 6.021540 0.180 0.332  
## 1976 0.500610 0.186 0.345  
## 1977 5.901426 0.208 0.364  
## 1978 26.089479 0.315 0.447  
## 1979 0.280000 0.189 0.354  
## 1980 0.101875 0.175 0.329  
## 1981 0.430640 0.209 0.353  
## 1982 0.384000 0.174 0.344  
## 1983 0.600000 0.203 0.362  
## 1984 7.542480 0.215 0.378  
## 1985 0.821205 0.181 0.328  
## 1986 0.310000 0.169 0.329  
## 1987 3.604690 0.164 0.345  
## 1988 2.310000 0.186 0.314  
## 1989 0.234000 0.173 0.335  
## 1990 1.700000 0.169 0.330  
## 1991 2.135759 0.185 0.289  
## 1992 1.293136 0.141 0.328  
## 1993 9.291546 0.246 0.383  
## 1994 0.000000 0.191 0.358  
## 1995 4.603500 0.164 0.330  
## 1996 0.869584 0.177 0.294  
## 1997 0.000000 0.189 0.331  
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## pct\_binge\_drinkers pct\_under\_65\_no\_health\_insurance pct\_highschool\_diploma  
## 1 0.1665626 0.10559421 0.8958449  
## 2 0.1896517 0.10874881 0.9101416  
## 3 0.1342877 0.14368275 0.7567102  
## 4 0.1277270 0.12367547 0.7760651  
## 5 0.1374772 0.13485054 0.8556485  
## 6 0.1507498 0.13219489 0.8278154  
## 7 0.1757782 0.12844784 0.7982209  
## 8 0.1478154 0.12671120 0.8058399  
## 9 0.1324122 0.13698398 0.8222386  
## 10 0.1581220 0.14378174 0.8300732  
## 11 0.1691150 0.13498975 0.8305711  
## 12 0.1563039 0.10455153 0.8679624  
## 13 0.1368765 0.11361796 0.8757069  
## 14 0.1616895 0.11703801 0.8509492  
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## 16 0.1606866 0.13846511 0.8484497  
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## 86 0.1393992 0.09016908 0.8450024  
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## 3 5.180597 9.3537761 9.4 1  
## 4 6.274395 7.0168404 9.3 0  
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## 6 4.212493 18.8650540 9.8 0  
## 7 4.808900 8.3669278 9.5 0  
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## 10 6.275465 12.2025625 7.6 0  
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## 1710 4.107106 9.7051512 9.7 0  
## 1711 4.388919 9.2554566 10.0 1  
## 1712 3.477246 15.5172002 8.9 1  
## 1713 4.653785 13.4219180 8.4 0  
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## 1717 4.105361 12.8635273 8.8 0  
## 1718 4.241431 13.3464679 8.9 0  
## 1719 4.202563 15.9850806 7.6 1  
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## 1786 4.397142 36.5535248 6.9 0  
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## 1834 4.696387 14.7383935 6.4 1  
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## 1909 6.332164 7.6338925 8.7 0  
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## pct\_high\_housing\_costs pct\_overcrowded\_hh pct\_30\_min\_plus\_commute  
## 1 0.12635805 0.011217574 0.416  
## 2 0.10561056 0.012912393 0.376  
## 3 0.13464346 0.038523275 0.365  
## 4 0.12785388 0.000000000 0.494  
## 5 0.09451411 0.015372790 0.347  
## 6 0.10871873 0.052788104 0.281  
## 7 0.07779886 0.013507219 0.456  
## 8 0.07393822 0.008490566 0.481  
## 9 0.10844817 0.015951595 0.352  
## 10 0.06445312 0.009423077 0.407  
## 11 0.07386262 0.008450704 0.558  
## 12 0.09715344 0.005941499 0.245  
## 13 0.06973533 0.005268935 0.411  
## 14 0.08614232 0.027295285 0.373  
## 15 0.07856082 0.019333011 0.327  
## 16 0.10327292 0.015155544 0.271  
## 17 0.08099565 0.029377880 0.328  
## 18 0.10052820 0.016156176 0.468  
## 19 0.08779702 0.017876241 0.265  
## 20 0.09123083 0.012968670 0.281  
## 21 0.09953944 0.012500000 0.459  
## 22 0.06602031 0.034389140 0.389  
## 23 0.11314597 0.039823009 0.540  
## 24 0.08725038 0.004826546 0.366  
## 25 0.11504471 0.013482574 0.249  
## 26 0.07368421 0.025610051 0.403  
## 27 0.13782345 0.014240325 0.348  
## 28 0.05699482 0.016908625 0.403  
## 29 0.10221286 0.012477255 0.320  
## 30 0.08727715 0.016962525 0.519  
## 31 0.14995274 0.032207189 0.268  
## 32 0.08512982 0.021309691 0.431  
## 33 0.15841346 0.019764706 0.584  
## 34 0.14262069 0.013110368 0.405  
## 35 0.09804860 0.013293745 0.270  
## 36 0.12549306 0.003940217 0.349  
## 37 0.08859797 0.017507295 0.305  
## 38 0.10279690 0.018202666 0.340  
## 39 0.13516186 0.019616000 0.365  
## 40 0.13437500 0.004776485 0.279  
## 41 0.15161364 0.020217816 0.206  
## 42 0.09484285 0.023301394 0.332  
## 43 0.16723550 0.000000000 0.465  
## 44 0.08693905 0.013752456 0.601  
## 45 0.15526196 0.012413793 0.240  
## 46 0.09031877 0.029310345 0.436  
## 47 0.15308370 0.023000860 0.355  
## 48 0.09013148 0.013578898 0.549  
## 49 0.13045267 0.004615385 0.428  
## 50 0.11237263 0.012103838 0.362  
## 51 0.10621433 0.028324591 0.403  
## 52 0.14336792 0.016422854 0.278  
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## 54 0.05467249 0.025876461 0.554  
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## 59 0.15081756 0.065654969 0.163  
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## 61 0.10561586 0.069450749 0.199  
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## 63 0.08177172 0.049224184 0.141  
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## 87 0.09458429 0.026296018 0.328  
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## 90 0.13852149 0.020639372 0.406  
## 91 0.12035287 0.021014673 0.234  
## 92 0.09638022 0.021849964 0.522  
## 93 0.09104258 0.024920313 0.308  
## 94 0.06632000 0.026984127 0.449  
## 95 0.10452261 0.018287938 0.258  
## 96 0.07908429 0.006804124 0.305  
## 97 0.10024896 0.014669927 0.258  
## 98 0.14067570 0.021268657 0.218  
## 99 0.10559702 0.026929982 0.459  
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## 101 0.13670473 0.020280811 0.289  
## 102 0.08469945 0.029139073 0.427  
## 103 0.04214487 0.017520969 0.476  
## 104 0.06449668 0.030303030 0.367  
## 105 0.08803756 0.018962633 0.486  
## 106 0.11452096 0.012536873 0.375  
## 107 0.11229277 0.043835616 0.215  
## 108 0.10425663 0.045454546 0.257  
## 109 0.07902736 0.046476762 0.301  
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## 1986 80.82641 1933.770000 0.7698113 962  
## 1987 77.74980 4178.260000 0.6578431 5354  
## 1988 78.78872 1166.478950 0.6937385 2236  
## 1989 79.86662 -95.184570 0.6490323 698  
## 1990 81.32508 861.551175 0.7293963 1591  
## 1991 80.22588 5081.608000 0.6656077 7073  
## 1992 83.88163 1770.110550 0.7891839 18169  
## 1993 73.27033 2939.620000 0.5860550 798  
## 1994 80.75562 -2999.438000 0.7335180 699  
## 1995 84.47245 -1235.935400 0.6050000 1359  
## 1996 79.12410 -338.636500 0.6349280 8347  
## 1997 78.18049 1470.478000 0.6794030 728  
## 1998 77.55397 2097.990977 0.6808200 49529  
## 1999 78.73013 -1575.609500 0.6672216 1776  
## pct\_65\_plus pct\_rural\_population response region.Midwest region.Northeast  
## 1 0.16048735 0.420021623 worse 0 0  
## 2 0.21469824 0.422790991 better 0 0  
## 3 0.19976767 0.677896347 worse 0 0  
## 4 0.17596899 0.513743815 worse 0 0  
## 5 0.21240203 0.712321574 worse 0 0  
## 6 0.20288932 0.491480345 worse 0 0  
## 7 0.23975836 0.857362730 worse 0 0  
## 8 0.23745312 1.000000000 worse 0 0  
## 9 0.20474517 0.759803352 worse 0 0  
## 10 0.21226216 1.000000000 worse 0 0  
## 11 0.19698073 1.000000000 worse 0 0  
## 12 0.20254376 0.438946866 worse 0 0  
## 13 0.24134887 0.809495011 worse 0 0  
## 14 0.24708134 1.000000000 worse 0 0  
## 15 0.18714803 0.732395592 worse 0 0  
## 16 0.17733371 0.508885395 worse 0 0  
## 17 0.17676465 0.901306445 worse 0 0  
## 18 0.16297142 0.541883661 worse 0 0  
## 19 0.18401046 0.635115739 worse 0 0  
## 20 0.19345302 0.374834818 worse 0 0  
## 21 0.21798365 0.802331651 worse 0 0  
## 22 0.17049324 0.703665153 worse 0 0  
## 23 0.20130134 0.891687817 worse 0 0  
## 24 0.23117017 0.877528609 worse 0 0  
## 25 0.18554226 0.338040513 worse 0 0  
## 26 0.20959582 0.770173033 worse 0 0  
## 27 0.16679045 0.098337652 worse 0 0  
## 28 0.22455987 1.000000000 worse 0 0  
## 29 0.20527844 0.492951062 worse 0 0  
## 30 0.18954367 0.912897871 worse 0 0  
## 31 0.13086707 0.274094990 worse 0 0  
## 32 0.15525917 0.576091421 worse 0 0  
## 33 0.20321124 1.000000000 worse 0 0  
## 34 0.21513628 0.555472683 worse 0 0  
## 35 0.15501087 0.164415148 better 0 0  
## 36 0.20320067 0.693156418 worse 0 0  
## 37 0.21103741 0.888549519 worse 0 0  
## 38 0.17198762 0.532686870 worse 0 0  
## 39 0.17026046 0.200202425 worse 0 0  
## 40 0.21747761 0.790445639 worse 0 0  
## 41 0.15981779 0.104912301 worse 0 0  
## 42 0.18070964 0.385973722 worse 0 0  
## 43 0.20562537 1.000000000 worse 0 0  
## 44 0.19472369 1.000000000 worse 0 0  
## 45 0.15864933 0.516793824 worse 0 0  
## 46 0.21256083 0.813424693 worse 0 0  
## 47 0.15137427 0.354089939 worse 0 0  
## 48 0.17426791 0.727967653 worse 0 0  
## 49 0.19853667 1.000000000 worse 0 0  
## 50 0.18933075 0.558153383 worse 0 0  
## 51 0.22765278 0.742262591 worse 0 0  
## 52 0.14231279 0.255080758 worse 0 0  
## 53 0.19837082 0.740879996 worse 0 0  
## 54 0.20122797 1.000000000 worse 0 0  
## 55 0.21204289 1.000000000 worse 0 0  
## 56 0.22175714 0.848921745 worse 0 0  
## 57 0.16314402 0.740610755 worse 0 0  
## 58 0.23712019 0.363010674 worse 0 0  
## 59 0.14057028 0.314660656 better 0 0  
## 60 0.29888596 0.410619997 worse 0 0  
## 61 0.14110115 0.464373993 worse 0 0  
## 62 0.14451297 0.465686856 worse 0 0  
## 63 0.40815456 0.563277856 worse 0 0  
## 64 0.15773671 0.023637997 better 0 0  
## 65 0.31737041 0.229636438 worse 0 0  
## 66 0.19324623 0.541382423 worse 0 0  
## 67 0.20668707 0.075234911 better 0 0  
## 68 0.21010017 0.219046225 worse 0 0  
## 69 0.19161289 0.268831717 worse 0 0  
## 70 0.33673886 0.331971777 better 0 0  
## 71 0.19599498 0.104295764 worse 0 0  
## 72 0.20224854 0.347073979 worse 0 0  
## 73 0.21211310 0.516816913 worse 0 0  
## 74 0.30602221 0.658420254 worse 0 0  
## 75 0.13581575 0.251600486 better 0 0  
## 76 0.23907157 0.728339284 worse 0 0  
## 77 0.22008184 0.542796610 worse 0 0  
## 78 0.16729985 0.543770385 worse 0 0  
## 79 0.21393728 0.588571784 worse 0 0  
## 80 0.27123726 0.755217559 worse 0 0  
## 81 0.21320202 1.000000000 worse 0 0  
## 82 0.17347389 0.574861518 worse 0 0  
## 83 0.19934844 0.705166173 worse 0 0  
## 84 0.13981714 0.321682237 worse 0 0  
## 85 0.17620657 0.519613224 worse 0 0  
## 86 0.14607049 0.208871950 worse 0 0  
## 87 0.18763863 0.567879127 worse 0 0  
## 88 0.25285352 0.526367669 worse 0 0  
## 89 0.19828674 0.314191267 worse 0 0  
## 90 0.13223986 0.387602992 worse 0 0  
## 91 0.24394498 0.369032742 worse 0 0  
## 92 0.18302930 0.750294068 worse 0 0  
## 93 0.16173327 0.415062960 worse 0 0  
## 94 0.19678412 0.659690794 worse 0 0  
## 95 0.18042211 0.675175865 worse 0 0  
## 96 0.24843649 1.000000000 worse 0 0  
## 97 0.18345131 0.650608435 worse 0 0  
## 98 0.18677214 0.309162523 worse 0 0  
## 99 0.25150089 1.000000000 worse 0 0  
## 100 0.19040020 0.635601493 worse 0 0  
## 101 0.20257570 0.635072909 worse 0 0  
## 102 0.15670783 1.000000000 worse 0 0  
## 103 0.20997991 0.685217523 worse 0 0  
## 104 0.20287532 0.710195500 worse 0 0  
## 105 0.14361232 0.448124525 worse 0 0  
## 106 0.29108258 1.000000000 worse 0 0  
## 107 0.17282938 0.400119645 worse 0 0  
## 108 0.15448425 0.362672117 worse 0 0  
## 109 0.24210684 0.689777887 worse 0 0  
## 110 0.26605505 1.000000000 worse 0 0  
## 111 0.27373681 1.000000000 worse 0 0  
## 112 0.21182641 0.563514548 worse 0 0  
## 113 0.20814934 1.000000000 worse 0 0  
## 114 0.20225072 0.479661718 worse 0 0  
## 115 0.20663620 1.000000000 worse 0 0  
## 116 0.18234775 0.711385917 worse 0 0  
## 117 0.16256721 0.544936360 worse 0 0  
## 118 0.24204057 1.000000000 worse 0 0  
## 119 0.16512954 0.122767461 worse 0 0  
## 120 0.19008746 0.674216707 worse 0 0  
## 121 0.16860900 0.515535424 worse 0 0  
## 122 0.18303482 0.361601225 worse 0 0  
## 123 0.20942781 0.703552034 worse 0 0  
## 124 0.25850254 1.000000000 worse 0 0  
## 125 0.16749221 0.208121262 worse 0 0  
## 126 0.15047836 0.636006566 worse 0 0  
## 127 0.25093633 0.800567655 worse 0 0  
## 128 0.28250941 1.000000000 worse 0 0  
## 129 0.18857590 0.545041908 worse 0 0  
## 130 0.26742704 1.000000000 worse 0 0  
## 131 0.12315592 0.254947923 worse 0 0  
## 132 0.16583988 0.543178162 worse 0 0  
## 133 0.24296926 1.000000000 worse 0 0  
## 134 0.18114612 0.791255353 worse 0 0  
## 135 0.14925122 0.003886058 better 0 0  
## 136 0.27424319 0.604237221 better 0 0  
## 137 0.18238290 0.189018182 worse 0 0  
## 138 0.28534649 0.754091886 better 0 0  
## 139 0.15399005 0.317241701 worse 0 0  
## 140 0.16697678 0.007927361 better 0 0  
## 141 0.18943061 0.336735407 worse 0 0  
## 142 0.22604686 0.346999304 better 0 0  
## 143 0.12607281 0.108052018 worse 0 0  
## 144 0.16684603 0.408719152 worse 0 0  
## 145 0.19151199 0.297586594 worse 0 0  
## 146 0.13362728 0.174178355 worse 0 0  
## 147 0.24074855 0.464304971 better 0 0  
## 148 0.11402537 0.102060310 worse 0 0  
## 149 0.10702346 0.108516035 worse 0 0  
## 150 0.15938358 0.705258633 worse 0 0  
## 151 0.14614289 0.006052184 worse 0 0  
## 152 0.14265103 0.329248003 worse 0 0  
## 153 0.28792209 1.000000000 better 0 0  
## 154 0.23655879 0.452305871 worse 0 0  
## 155 0.28437825 0.699566385 worse 0 0  
## 156 0.17664377 0.458315730 better 0 0  
## 157 0.14482822 0.098160012 worse 0 0  
## 158 0.20211149 0.134008382 better 0 0  
## 159 0.28476040 0.421347860 better 0 0  
## 160 0.15744415 0.001433444 better 0 0  
## 161 0.20022314 0.137871952 better 0 0  
## 162 0.30273663 0.740240916 better 0 0  
## 163 0.14840740 0.046223102 worse 0 0  
## 164 0.12098136 0.047344991 worse 0 0  
## 165 0.14884076 0.032970494 better 0 0  
## 166 0.21407760 0.165963870 better 0 0  
## 167 0.18273511 0.120393167 better 0 0  
## 168 0.21037230 0.292862665 better 0 0  
## 169 0.30429485 0.997222222 better 0 0  
## 170 0.26909651 0.658262806 worse 0 0  
## 171 0.16894243 0.037184524 better 0 0  
## 172 0.21119725 0.123535271 better 0 0  
## 173 0.16046354 0.147978087 worse 0 0  
## 174 0.20177715 0.514882688 worse 0 0  
## 175 0.29103362 1.000000000 worse 0 0  
## 176 0.27235263 0.489659532 better 0 0  
## 177 0.16698580 0.031245521 better 0 0  
## 178 0.13222051 0.069295839 better 0 0  
## 179 0.13196917 0.262227150 worse 0 0  
## 180 0.11044356 0.036204464 better 0 0  
## 181 0.14715658 0.368662998 worse 0 0  
## 182 0.14037258 0.015753414 better 0 0  
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## 187 0.26068546 0.374136673 better 0 0  
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## 189 0.20007882 1.000000000 worse 0 0  
## 190 0.13273453 1.000000000 worse 0 0  
## 191 0.33201189 1.000000000 better 0 0  
## 192 0.27251192 0.631720083 better 0 0  
## 193 0.12155235 0.000000000 better 0 0  
## 194 0.13215805 0.102874258 better 0 0  
## 195 0.13801210 0.199839071 better 0 0  
## 196 0.18058832 1.000000000 better 0 0  
## 197 0.22448199 0.264202119 better 0 0  
## 198 0.14446357 0.241039919 better 0 0  
## 199 0.19478972 1.000000000 better 0 0  
## 200 0.20182850 0.825978576 better 0 0  
## 201 0.14293154 0.586074132 better 0 0  
## 202 0.32023121 0.561466249 better 0 0  
## 203 0.17359610 0.068963582 better 0 0  
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## 208 0.25421991 0.407944799 better 0 0  
## 209 0.17176512 1.000000000 better 0 0  
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## 211 0.20488766 0.126762675 better 0 0  
## 212 0.16776640 0.273577383 better 0 0  
## 213 0.23954155 0.671822988 better 0 0  
## 214 0.20506615 0.344060326 worse 0 0  
## 215 0.30208540 1.000000000 better 0 0  
## 216 0.23160271 1.000000000 better 0 0  
## 217 0.22074468 1.000000000 better 0 0  
## 218 0.21864192 0.442034056 better 0 0  
## 219 0.18347783 0.378854275 worse 0 0  
## 220 0.19091863 0.141535115 worse 0 0  
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## 268 0.17203531 1.000000000 worse 0 0  
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## 396 0.24812929 0.809454237 worse 0 0  
## 397 0.32189033 0.730998806 worse 0 0  
## 398 0.28646533 0.792823790 worse 0 0  
## 399 0.25719739 0.506283197 worse 0 0  
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## 406 0.20249395 0.585635148 worse 0 0  
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## 410 0.15005206 0.682366771 worse 0 0  
## 411 0.21836133 1.000000000 worse 0 0  
## 412 0.18809409 0.469878788 worse 0 0  
## 413 0.20738510 0.520558239 worse 0 0  
## 414 0.18938964 0.460219141 worse 0 0  
## 415 0.15789091 0.407821925 worse 0 0  
## 416 0.16669763 0.510560923 worse 0 0  
## 417 0.34772815 1.000000000 better 0 0  
## 418 0.15415950 0.442992662 worse 0 0  
## 419 0.18793219 0.497312430 worse 0 0  
## 420 0.23790733 1.000000000 worse 0 0  
## 421 0.34042553 1.000000000 better 0 0  
## 422 0.18603896 0.469082606 worse 0 0  
## 423 0.16001522 0.426582943 worse 0 0  
## 424 0.17570005 0.294420577 worse 0 0  
## 425 0.23206107 1.000000000 worse 0 0  
## 426 0.17882234 0.656015481 worse 0 0  
## 427 0.24376848 1.000000000 worse 0 0  
## 428 0.15607014 1.000000000 worse 0 0  
## 429 0.22653119 0.837938403 better 0 0  
## 430 0.14510734 0.290772815 worse 0 0  
## 431 0.18697791 1.000000000 worse 0 0  
## 432 0.23862084 0.673652412 worse 0 0  
## 433 0.20926282 1.000000000 worse 0 0  
## 434 0.20088547 0.691637068 worse 0 0  
## 435 0.15566746 0.054722006 better 0 0  
## 436 0.31027027 1.000000000 better 0 0  
## 437 0.15118453 0.157293062 better 0 0  
## 438 0.20305577 1.000000000 better 0 0  
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## 441 0.27748950 1.000000000 better 0 0  
## 442 0.13534746 0.129516281 better 0 0  
## 443 0.23326168 0.761848341 better 0 0  
## 444 0.25131876 1.000000000 worse 0 0  
## 445 0.14201921 0.198678827 worse 0 0  
## 446 0.18183097 0.598879793 better 0 0  
## 447 0.14735336 0.515118508 worse 0 0  
## 448 0.27858347 0.586120306 better 0 0  
## 449 0.30916892 1.000000000 better 0 0  
## 450 0.14503764 0.268843849 worse 0 0  
## 451 0.14618846 0.661895824 better 0 0  
## 452 0.17789876 0.720434980 better 0 0  
## 453 0.22382781 0.450206352 better 0 0  
## 454 0.18272889 0.580832902 worse 0 0  
## 455 0.12104838 0.666105585 better 0 0  
## 456 0.19470602 0.242443716 better 0 0  
## 457 0.31413869 0.611391129 better 0 0  
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## 459 0.14918591 1.000000000 worse 0 0  
## 460 0.07729998 0.284633419 better 0 0  
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## 462 0.20725962 0.191646505 better 0 0  
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## 476 0.22598303 0.573903597 better 1 0  
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## 479 0.13728556 0.127103008 better 1 0  
## 480 0.20524627 0.434511494 better 1 0  
## 481 0.20111111 0.595408632 better 1 0  
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## 508 0.17277512 0.244568044 better 1 0  
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## 835 0.22401769 1.000000000 worse 0 0  
## 836 0.17482511 0.270164294 worse 0 0  
## 837 0.21015377 1.000000000 worse 0 0  
## 838 0.21108251 1.000000000 worse 0 0  
## 839 0.19209481 0.761245911 worse 0 0  
## 840 0.14429773 0.030669060 worse 0 0  
## 841 0.18359170 0.805199331 worse 0 0  
## 842 0.18422275 0.275540225 worse 0 0  
## 843 0.21529484 0.644356378 worse 0 0  
## 844 0.14518518 1.000000000 worse 0 0  
## 845 0.18719042 0.778914380 worse 0 0  
## 846 0.14213278 0.649906739 worse 0 0  
## 847 0.18319258 0.735803620 worse 0 0  
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## 849 0.17762577 0.893053123 worse 0 0  
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## 856 0.25768535 1.000000000 worse 0 0  
## 857 0.18990651 0.471248934 worse 0 0  
## 858 0.17975970 1.000000000 worse 0 0  
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## 860 0.16201097 0.258984070 worse 0 0  
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## 862 0.15360925 0.069759579 worse 0 0  
## 863 0.20166513 1.000000000 worse 0 0  
## 864 0.17442910 0.629238152 worse 0 0  
## 865 0.18099547 0.759529346 worse 0 0  
## 866 0.17026582 0.568420874 worse 0 0  
## 867 0.18661756 0.771059269 worse 0 0  
## 868 0.17782848 1.000000000 worse 0 0  
## 869 0.19050399 1.000000000 worse 0 0  
## 870 0.20448878 1.000000000 worse 0 0  
## 871 0.19527220 1.000000000 worse 0 0  
## 872 0.18648682 0.816587180 worse 0 0  
## 873 0.22234624 0.953776657 worse 0 0  
## 874 0.18508516 0.749804360 worse 0 0  
## 875 0.25627627 1.000000000 worse 0 0  
## 876 0.20701515 0.278242965 worse 0 0  
## 877 0.16108217 1.000000000 worse 0 0  
## 878 0.20043956 1.000000000 worse 0 0  
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## 880 0.18630947 1.000000000 worse 0 0  
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## 907 0.20593743 1.000000000 worse 0 0  
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## 1247 0.19864460 0.612804349 better 1 0  
## 1248 0.18293171 0.411962866 worse 1 0  
## 1249 0.21658216 0.732646010 worse 1 0  
## 1250 0.21024189 0.639574262 worse 1 0  
## 1251 0.19838559 0.772713942 worse 1 0  
## 1252 0.31037774 0.865396725 worse 1 0  
## 1253 0.20983327 1.000000000 worse 1 0  
## 1254 0.17193183 0.133720474 worse 1 0  
## 1255 0.19329707 0.521825490 worse 1 0  
## 1256 0.20186580 1.000000000 worse 1 0  
## 1257 0.17191630 0.620274294 better 1 0  
## 1258 0.29104890 0.742284442 better 1 0  
## 1259 0.17412590 0.305032111 better 1 0  
## 1260 0.22063037 0.645400753 worse 1 0  
## 1261 0.20075188 1.000000000 worse 1 0  
## 1262 0.17521297 0.324021392 better 1 0  
## 1263 0.22654525 0.752968102 worse 1 0  
## 1264 0.24646547 1.000000000 worse 1 0  
## 1265 0.16358649 0.447960528 better 1 0  
## 1266 0.21273753 1.000000000 worse 1 0  
## 1267 0.14879969 0.098157602 better 1 0  
## 1268 0.18349227 0.762088415 better 1 0  
## 1269 0.17848585 0.290748783 better 1 0  
## 1270 0.19141104 0.532015226 worse 1 0  
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## 1274 0.21169187 1.000000000 worse 1 0  
## 1275 0.18498829 0.624030407 worse 1 0  
## 1276 0.25144903 0.791216019 worse 1 0  
## 1277 0.18508497 0.504553563 worse 1 0  
## 1278 0.18443234 0.555984708 better 1 0  
## 1279 0.23074843 0.808697937 better 1 0  
## 1280 0.21718107 0.454634051 worse 1 0  
## 1281 0.22366487 0.703918723 worse 1 0  
## 1282 0.22174187 0.495465158 worse 1 0  
## 1283 0.32090159 1.000000000 worse 1 0  
## 1284 0.25153810 1.000000000 worse 1 0  
## 1285 0.20072777 0.640575710 better 1 0  
## 1286 0.19824891 0.721732673 worse 1 0  
## 1287 0.21991922 0.748541863 worse 1 0  
## 1288 0.15669962 0.038369344 worse 1 0  
## 1289 0.16102473 0.236916971 worse 1 0  
## 1290 0.12932595 0.504439586 better 1 0  
## 1291 0.21927521 1.000000000 worse 1 0  
## 1292 0.18099798 0.605127773 worse 1 0  
## 1293 0.19230886 0.569485636 worse 1 0  
## 1294 0.18097127 0.586866491 worse 1 0  
## 1295 0.19350000 1.000000000 worse 1 0  
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## 1297 0.20000000 0.366041461 worse 1 0  
## 1298 0.15870504 0.999913356 worse 1 0  
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## 1301 0.21686890 1.000000000 worse 1 0  
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## 1303 0.19587298 0.797801843 worse 1 0  
## 1304 0.18256500 0.326995403 worse 1 0  
## 1305 0.16249031 0.527007112 worse 1 0  
## 1306 0.20429260 0.785142203 worse 1 0  
## 1307 0.23677440 1.000000000 worse 1 0  
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## 1309 0.22986908 0.805348773 worse 1 0  
## 1310 0.17953509 1.000000000 better 1 0  
## 1311 0.28695058 1.000000000 worse 1 0  
## 1312 0.17845891 0.492675995 worse 1 0  
## 1313 0.19527534 0.556217384 worse 1 0  
## 1314 0.17115865 0.377787256 worse 1 0  
## 1315 0.16968200 0.462242006 worse 1 0  
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## 1322 0.19145515 0.752192049 worse 1 0  
## 1323 0.23426975 1.000000000 worse 1 0  
## 1324 0.20288217 1.000000000 worse 1 0  
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## 1326 0.26247867 1.000000000 worse 1 0  
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## 1328 0.16889001 0.397634603 worse 1 0  
## 1329 0.18816330 0.011379903 better 1 0  
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## 1333 0.18837209 0.415529076 worse 1 0  
## 1334 0.22811708 1.000000000 worse 1 0  
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## 1337 0.31742107 0.886870381 worse 1 0  
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## 1659 0.27457627 1.000000000 better 1 0  
## 1660 0.13732205 0.167691180 better 1 0  
## 1661 0.29961257 1.000000000 better 1 0  
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## [ reached 'max' / getOption("max.print") -- omitted 561 rows ]

# View the transformed test data  
print("Transformed Test Data:")

## [1] "Transformed Test Data:"

print(qol\_test)

## average\_hh\_size pct\_male pct\_native\_american pct\_asian pct\_black  
## 1 2.85 53.73 0.05 0.25 22.55  
## 2 2.70 49.65 0.10 0.41 1.40  
## 3 2.50 48.04 0.31 0.81 21.16  
## 4 2.55 48.75 1.14 0.44 9.67  
## 5 2.59 49.42 1.00 1.61 17.05  
## 6 2.43 48.61 0.21 0.66 12.69  
## 7 2.72 47.66 0.75 1.32 23.63  
## 8 2.44 46.10 0.13 0.65 71.47  
## 9 2.47 48.48 1.18 0.16 10.15  
## 10 2.55 47.43 0.46 0.00 78.93  
## 11 2.64 48.35 0.39 1.96 12.12  
## 12 2.46 49.31 0.67 0.73 0.21  
## 13 2.51 47.22 3.30 0.06 27.52  
## 14 2.87 50.02 0.00 0.00 22.15  
## 15 2.39 48.66 0.02 0.03 28.46  
## 16 2.61 49.73 1.61 0.75 0.98  
## 17 2.42 48.98 0.91 0.13 0.33  
## 18 2.63 46.21 0.55 0.13 30.10  
## 19 2.55 49.12 0.28 0.81 1.91  
## 20 2.62 49.10 0.18 2.25 1.56  
## 21 2.70 50.81 0.81 0.77 0.10  
## 22 2.53 50.16 0.25 0.06 34.82  
## 23 2.45 48.74 1.60 0.31 0.52  
## 24 2.48 49.94 3.95 1.46 2.46  
## 25 3.29 50.51 1.05 7.63 2.99  
## 26 2.77 48.90 0.62 16.68 9.68  
## 27 3.33 50.34 0.86 2.84 0.85  
## 28 3.18 49.84 0.62 15.89 7.07  
## 29 2.86 50.02 1.11 5.55 1.90  
## 30 3.09 49.53 0.87 5.86 3.11  
## 31 3.30 50.00 1.28 3.73 1.64  
## 32 2.15 50.69 0.68 1.12 0.99  
## 33 2.35 52.34 2.05 1.13 0.34  
## 34 2.63 50.51 0.80 2.64 6.30  
## 35 2.39 49.37 1.27 0.95 0.20  
## 36 2.60 51.05 0.41 0.48 3.09  
## 37 2.39 49.87 1.37 0.10 1.10  
## 38 2.25 52.07 0.95 1.39 0.01  
## 39 2.37 48.79 0.39 0.52 0.43  
## 40 2.38 50.27 0.86 0.20 0.65  
## 41 2.31 48.84 0.27 3.19 5.51  
## 42 2.59 48.41 0.27 5.72 25.23  
## 43 2.51 48.48 0.23 4.68 29.54  
## 44 2.20 56.27 0.10 0.29 13.86  
## 45 2.87 49.02 0.20 5.28 20.99  
## 46 2.54 48.61 0.29 2.69 5.79  
## 47 2.82 52.13 0.15 0.32 13.42  
## 48 2.69 50.82 0.67 0.00 19.76  
## 49 2.72 50.28 0.50 1.12 2.16  
## 50 2.57 48.92 0.06 0.97 10.40  
## 51 2.81 46.82 0.00 0.45 47.35  
## 52 2.53 51.61 0.06 0.39 9.75  
## 53 2.19 49.13 0.00 1.06 55.68  
## 54 2.67 51.14 0.08 0.70 28.64  
## 55 2.61 48.26 0.00 0.12 45.77  
## 56 2.48 52.22 0.08 0.32 29.78  
## 57 2.53 50.16 0.30 0.95 28.56  
## 58 2.29 48.71 0.10 0.31 0.17  
## 59 2.59 48.29 0.16 1.19 13.85  
## 60 2.56 49.15 0.14 0.84 4.35  
## 61 2.63 48.83 0.11 0.16 19.70  
## 62 2.60 48.09 0.16 0.61 24.50  
## 63 2.63 49.35 0.03 0.55 28.40  
## 64 2.72 50.20 0.12 2.27 21.69  
## 65 2.52 48.32 0.06 0.25 40.33  
## 66 2.98 48.71 0.22 1.08 20.11  
## 67 2.73 48.93 0.34 0.57 11.35  
## 68 2.62 53.84 0.00 0.00 28.98  
## 69 2.58 49.23 0.14 0.81 3.85  
## 70 2.66 50.39 0.11 0.49 20.60  
## 71 2.57 50.51 8.92 0.23 0.39  
## 72 2.46 49.72 1.05 0.67 0.27  
## 73 2.45 52.67 3.66 0.53 0.21  
## 74 2.99 50.53 0.60 0.76 0.17  
## 75 2.34 51.09 1.24 2.16 1.21  
## 76 2.34 49.50 0.55 0.29 0.05  
## 77 2.12 50.19 0.05 0.49 2.11  
## 78 2.55 48.55 0.31 7.47 23.26  
## 79 2.32 49.14 0.44 0.28 0.44  
## 80 2.51 52.86 0.15 0.53 4.41  
## 81 2.29 51.79 0.39 0.20 3.71  
## 82 2.50 52.03 0.26 0.00 2.49  
## 83 2.21 49.36 0.29 3.43 14.98  
## 84 2.11 50.25 0.32 0.59 0.56  
## 85 3.07 49.36 0.14 3.34 7.92  
## 86 2.34 50.35 0.10 0.83 2.72  
## 87 2.33 51.09 0.01 0.80 3.92  
## 88 2.20 52.68 0.09 0.29 3.67  
## 89 2.39 49.58 0.29 0.43 1.04  
## 90 2.17 54.96 0.06 0.62 8.55  
## 91 2.42 49.48 0.15 0.32 0.91  
## 92 2.44 51.74 0.00 0.84 5.72  
## 93 2.40 50.50 0.07 0.31 1.34  
## 94 2.20 49.04 0.27 0.21 0.88  
## 95 2.50 49.82 0.02 0.08 0.58  
## 96 2.44 49.77 0.35 1.61 1.17  
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## 98 2.56 49.55 0.27 2.44 1.35  
## 99 2.57 50.05 0.01 0.24 0.88  
## 100 2.46 50.40 0.14 0.00 1.29  
## 101 2.47 48.69 0.46 2.52 12.85  
## 102 2.30 51.07 0.04 0.56 0.38  
## 103 2.32 50.75 0.16 1.97 7.23  
## 104 2.40 50.16 0.00 0.23 0.63  
## 105 2.46 49.00 0.20 0.38 0.81  
## 106 2.15 49.80 0.00 0.78 0.48  
## 107 2.60 49.55 0.21 0.35 0.14  
## 108 2.04 50.29 0.00 1.11 3.05  
## 109 2.41 49.33 0.24 1.18 3.13  
## 110 2.41 51.33 0.23 0.57 1.50  
## 111 2.52 49.16 0.04 11.22 2.38  
## 112 2.32 49.39 0.26 0.42 0.44  
## 113 2.32 50.40 0.36 0.15 1.50  
## 114 2.64 50.39 0.26 0.59 0.41  
## 115 2.46 49.47 0.71 0.04 0.58  
## 116 2.57 50.37 0.79 1.22 2.48  
## 117 2.11 50.05 1.00 0.57 1.01  
## 118 2.39 50.17 1.57 1.86 2.81  
## 119 2.30 50.12 0.53 0.78 1.18  
## 120 2.20 51.11 0.35 0.38 0.20  
## 121 2.82 48.90 0.95 0.13 0.03  
## 122 2.46 50.38 0.72 0.02 0.68  
## 123 2.16 49.94 0.06 0.15 0.56  
## 124 2.34 50.41 0.22 0.76 0.14  
## 125 2.01 49.86 0.20 0.11 0.86  
## 126 2.38 50.05 0.27 0.19 1.86  
## 127 2.07 49.27 0.46 0.35 0.96  
## 128 2.35 50.94 0.20 0.00 0.00  
## 129 2.01 50.25 0.11 0.00 0.14  
## 130 2.23 48.11 0.57 1.09 1.04  
## 131 2.33 49.20 0.22 0.00 0.74  
## 132 2.72 49.71 0.50 4.88 21.51  
## 133 2.59 50.53 0.24 0.97 0.97  
## 134 2.69 49.93 0.14 0.76 1.21  
## 135 2.48 52.80 0.46 1.72 20.78  
## 136 2.38 48.85 0.01 0.34 1.07  
## 137 2.53 48.90 0.12 0.52 3.96  
## 138 2.45 49.30 0.75 0.03 1.77  
## 139 2.73 50.26 0.11 0.59 1.48  
## 140 2.52 48.55 0.07 1.04 4.48  
## 141 2.49 49.16 0.22 0.00 0.34  
## 142 2.50 49.32 0.56 1.99 23.29  
## 143 2.39 49.26 0.59 0.42 1.46  
## 144 2.43 47.35 0.18 2.89 59.22  
## 145 3.06 48.85 0.40 2.60 23.49  
## 146 2.65 47.70 0.00 0.18 49.38  
## 147 2.78 48.54 0.00 1.08 57.50  
## 148 2.67 48.57 0.35 1.90 14.22  
## 149 2.20 49.52 1.91 0.38 1.01  
## 150 2.56 47.35 0.25 6.07 29.35  
## 151 2.66 49.24 0.22 4.44 9.87  
## 152 2.75 48.90 0.26 18.44 19.22  
## 153 2.59 48.19 0.17 3.44 4.32  
## 154 2.53 48.98 0.20 12.40 5.27  
## 155 2.27 49.59 0.64 0.40 0.43  
## 156 2.47 49.89 0.63 0.09 0.61  
## 157 2.23 51.04 0.28 0.83 0.32  
## 158 2.40 49.17 0.52 2.39 7.02  
## 159 1.99 52.86 2.71 0.53 3.15  
## 160 2.40 48.75 0.41 6.65 11.80  
## 161 2.62 49.31 0.36 3.07 9.38  
## 162 2.41 50.54 0.36 0.28 2.25  
## 163 2.60 50.18 0.24 1.03 0.60  
## 164 2.53 49.64 0.73 0.72 13.25  
## 165 2.43 49.51 0.23 0.26 0.76  
## 166 2.43 49.55 0.35 9.16 11.83  
## 167 2.41 50.02 0.21 2.25 4.15  
## 168 2.39 52.37 4.15 0.66 2.56  
## 169 2.45 49.17 1.64 1.41 3.92  
## 170 2.53 48.79 0.68 14.81 11.69  
## 171 2.37 50.46 5.03 2.60 0.61  
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## 174 2.67 48.36 0.31 2.10 23.66  
## 175 2.43 48.49 0.15 0.71 43.83  
## 176 2.65 47.72 0.20 0.94 29.50  
## 177 2.57 47.99 0.12 2.68 37.93  
## 178 2.74 50.18 0.17 0.26 37.87  
## 179 2.71 48.39 0.12 0.50 37.00  
## 180 2.77 50.34 0.13 0.00 17.96  
## 181 2.61 47.88 0.22 0.27 19.54  
## 182 2.69 56.52 0.44 0.05 57.55  
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## 184 1.99 49.83 0.93 0.08 0.41  
## 185 2.37 48.54 0.37 4.41 8.86  
## 186 2.41 49.59 0.80 0.59 0.64  
## 187 2.55 48.45 0.26 0.56 0.55  
## 188 2.20 48.66 0.50 1.98 3.07  
## 189 2.62 49.73 0.24 0.78 0.86  
## 190 2.87 50.06 0.22 0.28 2.29  
## 191 2.66 49.52 0.00 0.52 0.36  
## 192 2.27 50.73 0.71 0.51 3.21  
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## 194 2.23 50.10 0.21 1.46 2.58  
## 195 2.57 49.11 1.31 0.32 0.93  
## 196 2.67 49.07 0.55 0.05 3.05  
## 197 2.37 49.07 0.21 0.68 0.60  
## 198 2.30 49.43 0.98 0.50 0.69  
## 199 2.15 53.03 1.35 0.27 0.50  
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## 202 2.04 49.96 0.73 0.39 0.36  
## 203 2.31 50.63 1.47 0.81 3.69  
## 204 2.16 49.76 2.89 0.59 2.99  
## 205 2.14 49.35 0.54 0.90 0.16  
## 206 2.18 49.63 0.03 0.34 0.44  
## 207 2.21 60.08 1.04 1.19 5.30  
## 208 2.39 50.19 0.64 4.25 3.90  
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## 212 2.49 51.26 0.20 0.83 0.58  
## 213 2.09 49.95 0.00 0.73 0.17  
## 214 2.73 49.88 0.86 9.89 11.92  
## 215 2.16 50.15 0.26 0.74 0.52  
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## 218 2.69 50.99 0.93 1.36 19.91  
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## 223 3.56 57.94 0.20 0.00 4.26  
## 224 2.73 51.61 6.85 1.26 3.46  
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## 227 1.98 50.23 3.59 0.76 0.37  
## 228 2.56 50.92 1.26 1.23 1.70  
## 229 2.35 51.29 0.13 0.62 3.89  
## 230 2.32 49.55 0.38 1.51 5.93  
## 231 2.46 49.17 0.12 0.95 2.13  
## 232 2.50 49.69 0.29 3.44 10.71  
## 233 2.37 54.91 6.21 1.10 5.64  
## 234 2.44 52.39 0.44 1.69 5.93  
## 235 2.51 50.06 0.19 0.28 0.90  
## 236 2.35 48.23 0.30 3.69 15.07  
## 237 2.62 48.65 0.26 4.63 10.21  
## 238 2.41 51.64 0.30 0.58 2.98  
## 239 2.24 49.20 0.29 0.60 0.74  
## 240 2.31 47.56 0.13 0.10 24.61  
## 241 2.41 47.62 0.18 1.62 11.80  
## 242 2.09 46.26 0.52 0.18 1.93  
## 243 2.45 49.55 3.53 0.44 29.68  
## 244 2.49 49.65 1.28 2.53 37.21  
## 245 2.44 48.82 0.25 1.54 9.45  
## 246 2.73 48.75 0.38 0.32 23.16  
## 247 2.44 48.36 0.81 1.55 31.58  
## 248 2.60 49.30 0.31 2.44 12.08  
## 249 2.49 49.46 0.18 0.83 4.95  
## 250 2.45 49.14 0.33 0.50 1.48  
## 251 2.55 49.64 0.47 1.54 17.37  
## 252 2.23 48.78 0.51 0.32 55.42  
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## 256 2.32 48.87 5.67 0.50 50.20  
## 257 1.99 49.06 1.87 0.76 2.37  
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## 259 2.87 53.69 28.95 0.52 1.46  
## 260 2.57 49.25 0.09 1.39 1.23  
## 261 2.84 49.62 0.12 6.85 3.48  
## 262 2.41 48.76 0.03 1.02 2.46  
## 263 2.31 48.29 0.11 2.72 25.55  
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## 265 2.47 49.07 0.10 1.87 4.37  
## 266 2.43 49.16 0.22 0.44 3.01  
## 267 2.58 50.27 0.20 0.89 2.45  
## 268 2.48 60.16 2.37 0.29 2.95  
## 269 2.41 52.38 10.13 0.38 3.33  
## 270 3.11 49.63 3.96 3.01 3.12  
## 271 2.57 48.76 7.88 1.27 6.56  
## 272 2.55 51.12 10.19 0.00 2.11  
## 273 2.68 49.46 11.65 0.59 2.14  
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## 275 2.48 49.72 9.81 0.49 1.95  
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## 284 2.36 49.52 0.90 7.76 5.45  
## 285 2.25 48.44 0.09 0.46 5.93  
## 286 2.37 49.50 0.27 0.63 2.34  
## 287 2.46 49.67 0.17 0.78 1.66  
## 288 2.32 48.71 0.04 0.52 1.50  
## 289 2.33 49.82 0.05 0.26 0.47  
## 290 2.53 48.65 0.10 7.68 9.26  
## 291 2.59 49.61 0.39 0.32 59.08  
## 292 2.70 46.96 1.76 0.06 47.77  
## 293 2.37 47.56 0.42 0.55 57.53  
## 294 2.43 46.56 0.04 1.09 32.29  
## 295 2.60 51.75 0.05 0.46 52.61  
## 296 2.49 48.26 0.44 1.46 12.99  
## 297 2.43 51.04 0.01 0.22 64.00  
## 298 2.54 48.67 0.36 2.01 14.77  
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## 301 3.27 47.20 56.06 0.55 0.79  
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## 303 2.21 49.05 3.64 2.98 1.98  
## 304 2.27 49.95 2.43 0.51 0.59  
## 305 2.40 51.98 0.19 0.00 0.02  
## 306 3.29 50.13 0.00 0.00 0.00  
## 307 3.87 48.57 58.77 0.33 0.30  
## 308 2.59 52.04 2.12 0.05 0.39  
## 309 2.40 50.32 0.36 0.00 0.81  
## 310 2.47 50.55 8.22 1.33 1.41  
## 311 2.51 49.12 0.02 1.21 4.14  
## 312 2.49 48.09 0.17 0.34 13.07  
## 313 2.25 48.88 0.52 0.35 1.00  
## 314 2.54 50.47 0.26 0.38 1.81  
## 315 2.69 49.25 0.28 0.45 4.15  
## 316 2.73 50.23 0.27 0.16 4.77  
## 317 2.39 51.23 0.57 0.32 33.84  
## 318 2.58 48.72 0.21 0.25 5.82  
## 319 2.48 49.00 0.04 0.47 3.84  
## 320 2.39 49.35 0.37 0.27 1.90  
## 321 2.70 49.86 0.46 2.38 19.78  
## 322 2.43 48.96 0.42 0.77 2.39  
## 323 2.68 49.56 0.31 0.65 7.25  
## 324 2.55 49.47 0.33 0.82 0.88  
## 325 2.33 48.63 0.25 0.66 1.85  
## 326 2.60 49.95 0.24 0.75 2.63  
## 327 2.61 48.03 0.13 0.23 1.87  
## 328 2.68 52.13 0.03 0.00 5.87  
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## 335 3.37 50.99 0.06 1.32 1.34  
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## 342 2.18 48.34 0.21 0.28 22.62  
## 343 2.63 49.52 0.26 1.19 8.69  
## 344 2.98 50.66 0.24 0.63 0.88  
## 345 2.16 49.61 0.58 0.11 21.94  
## 346 2.59 48.75 0.68 2.37 7.84  
## 347 2.80 53.05 0.14 0.02 2.54  
## 348 3.56 49.05 0.18 0.51 0.46  
## 349 3.45 55.10 0.77 0.00 0.85  
## 350 2.95 51.69 1.69 0.00 3.77  
## 351 2.60 49.55 0.93 0.61 4.92  
## 352 2.96 53.32 1.14 0.30 0.00  
## 353 3.06 51.00 0.92 0.82 0.53  
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## 355 2.14 50.07 0.36 10.35 9.22  
## 356 2.31 56.36 0.00 0.21 3.95  
## 357 2.26 54.04 0.06 0.16 54.39  
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## 361 2.48 48.74 0.00 0.47 1.81  
## 362 2.36 47.70 0.25 0.74 34.45  
## 363 2.52 49.12 0.17 0.93 22.78  
## 364 2.65 49.08 0.72 1.40 15.14  
## 365 1.99 44.79 0.00 1.04 28.07  
## 366 2.52 52.36 0.30 0.25 3.92  
## 367 2.51 51.65 0.43 6.63 4.15  
## 368 2.89 53.64 0.54 1.54 32.00  
## 369 3.04 50.51 0.27 3.47 17.91  
## 370 2.73 50.41 0.96 0.63 0.48  
## 371 2.43 50.22 0.61 18.34 6.52  
## 372 2.35 50.66 1.88 0.61 1.16  
## 373 2.54 51.95 2.10 1.07 0.75  
## 374 1.98 48.45 0.88 1.51 0.90  
## 375 2.51 49.79 4.59 0.75 0.44  
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## 377 2.56 50.21 0.33 0.00 0.73  
## 378 2.16 49.38 0.09 0.56 1.66  
## 379 2.93 54.95 0.26 0.95 1.26  
## 380 2.36 50.47 0.00 0.29 1.59  
## 381 2.50 49.87 0.51 0.31 0.31  
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## 384 2.10 51.25 3.54 0.36 0.62  
## 385 2.09 51.30 0.46 0.00 0.65  
## 386 2.43 51.84 0.14 0.97 1.56  
## 387 2.39 50.35 0.24 0.66 0.83  
## 388 2.45 50.71 0.52 0.44 0.68  
## 389 3.23 50.15 83.97 0.18 0.18  
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## 391 2.45 49.25 0.30 1.11 4.62  
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## 393 2.04 50.22 2.59 0.00 0.00  
## 394 2.34 41.99 2.36 0.00 0.76  
## 395 2.58 50.63 0.60 0.19 0.27  
## pct\_hispanic pct\_other\_race pct\_white pct\_single\_parent  
## 1 2.68 0.04 76.60 32.19  
## 2 9.28 1.80 93.97 25.75  
## 3 3.85 1.64 73.30 34.42  
## 4 7.75 3.56 82.13 34.19  
## 5 7.68 1.29 74.69 32.20  
## 6 1.77 0.36 84.27 29.04  
## 7 2.21 0.42 71.53 30.95  
## 8 0.28 0.00 27.22 64.22  
## 9 4.07 1.01 85.96 33.10  
## 10 2.69 0.47 17.39 71.22  
## 11 5.71 2.69 79.76 17.06  
## 12 2.56 0.27 95.84 21.88  
## 13 15.38 0.56 66.85 33.25  
## 14 4.19 0.17 74.42 29.56  
## 15 3.58 1.13 68.48 36.02  
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## 17 0.63 0.07 94.65 19.51  
## 18 12.86 9.91 56.47 41.74  
## 19 6.62 3.18 89.82 25.45  
## 20 13.98 2.03 88.97 27.66  
## 21 5.83 1.41 92.43 28.28  
## 22 0.01 0.00 62.55 39.18  
## 23 6.56 3.51 90.26 24.65  
## 24 21.26 11.28 75.79 39.46  
## 25 60.23 30.90 50.96 37.74  
## 26 23.42 8.19 54.58 30.59  
## 27 60.14 10.10 73.37 25.94  
## 28 41.69 10.16 51.51 30.05  
## 29 45.68 9.76 71.83 31.63  
## 30 46.94 10.43 70.43 28.70  
## 31 65.08 18.43 66.77 34.57  
## 32 7.23 0.01 94.67 21.73  
## 33 61.36 4.28 76.75 46.76  
## 34 17.48 3.84 78.28 25.29  
## 35 20.58 1.67 90.84 18.86  
## 36 36.09 4.40 83.49 25.18  
## 37 35.93 3.73 88.60 26.31  
## 38 10.91 0.85 94.34 18.03  
## 39 19.12 4.08 89.42 30.87  
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## 41 6.41 0.98 86.85 28.81  
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## 43 10.20 2.49 57.92 39.23  
## 44 5.62 2.76 79.79 39.92  
## 45 32.12 6.13 59.87 32.81  
## 46 15.87 1.83 84.23 30.44  
## 47 9.58 1.98 80.27 40.56  
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## 50 5.28 2.11 83.50 30.86  
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## 52 5.34 2.17 84.74 26.58  
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## 75 4.44 0.50 91.05 17.78  
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## 82 0.77 0.00 96.84 24.59  
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## 87 4.77 1.41 91.74 27.81  
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## 90 3.16 0.91 87.50 37.58  
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## 98 7.35 4.82 89.44 25.74  
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## 107 1.63 0.01 97.12 21.94  
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## 109 2.58 0.46 91.91 27.47  
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## 117 2.65 0.00 96.28 20.22  
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## 125 2.26 0.97 95.31 35.36  
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## 162 8.26 0.75 92.64 28.53  
## 163 2.54 0.26 96.02 16.44  
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## 248 2.31 87.41 95.22 32.60  
## 249 2.13 85.06 94.78 31.29  
## 250 1.05 73.00 96.61 27.79  
## 251 1.16 71.88 96.50 33.97  
## 252 2.10 54.81 92.15 25.31  
## 253 1.41 83.94 91.90 29.37  
## 254 1.73 76.95 91.78 27.32  
## 255 2.12 91.94 95.32 30.65  
## 256 2.71 65.48 90.97 24.12  
## 257 4.03 80.35 98.25 32.63  
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## 262 2.40 80.71 95.06 30.77  
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## 264 2.78 85.08 92.83 29.03  
## 265 1.60 84.09 94.20 31.44  
## 266 1.28 77.47 93.06 27.23  
## 267 2.11 86.68 94.79 35.61  
## 268 2.53 81.50 96.52 36.48  
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## 270 1.47 88.89 95.84 35.76  
## 271 3.53 69.31 95.36 31.29  
## 272 3.57 80.18 95.44 27.95  
## 273 10.78 82.15 95.91 31.38  
## 274 1.43 67.04 94.20 24.14  
## 275 2.12 73.63 93.44 32.18  
## 276 2.46 75.21 94.18 35.00  
## 277 2.78 75.01 94.63 35.24  
## 278 1.88 79.89 93.37 30.38  
## 279 0.90 74.66 94.15 29.44  
## 280 2.24 88.02 94.66 35.44  
## 281 3.17 80.92 91.34 31.35  
## 282 2.20 80.63 90.88 33.30  
## 283 2.18 83.22 92.55 31.22  
## 284 2.45 90.40 94.77 29.39  
## 285 2.13 83.17 94.94 32.27  
## 286 1.60 83.42 94.88 31.91  
## 287 1.83 78.77 94.23 31.98  
## 288 2.27 80.96 94.17 34.64  
## 289 1.35 78.20 95.47 32.62  
## 290 2.31 91.20 95.52 27.85  
## 291 0.79 73.65 92.95 27.08  
## 292 0.71 58.83 93.63 24.09  
## 293 11.55 69.35 95.01 23.90  
## 294 1.02 75.59 93.92 26.33  
## 295 2.38 74.34 91.87 25.13  
## 296 4.00 86.85 94.03 32.91  
## 297 2.37 60.68 92.70 21.27  
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## 305 0.73 77.27 98.71 41.19  
## 306 2.60 88.45 97.68 31.47  
## 307 0.00 53.37 90.74 19.51  
## 308 3.27 89.62 96.75 38.96  
## 309 2.77 83.32 97.53 45.24  
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## 339 1.41 86.58 95.71 33.17  
## 340 0.40 70.38 95.83 31.53  
## 341 0.98 64.71 97.17 30.44  
## 342 1.50 69.06 89.09 23.86  
## 343 1.06 86.27 95.53 29.01  
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## 353 2.80 89.35 96.92 38.83  
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## 368 1.46 88.24 93.46 35.97  
## 369 2.75 95.03 96.19 25.20  
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## 371 3.28 92.88 95.73 25.88  
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## 384 1.66 80.14 94.38 35.34  
## 385 1.86 80.91 94.31 33.37  
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## pct\_w\_medicare clinical\_nurse\_pt dentist\_pt pa\_pt mental\_health\_faciliy\_pt  
## 1 7.74 0.00 0.27 0.23 0.0000  
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## 4 5.28 0.00 0.29 0.02 0.0225  
## 5 4.30 0.00 0.34 0.04 0.0188  
## 6 7.69 0.00 0.38 0.08 0.0812  
## 7 5.70 0.00 0.22 0.15 0.2193  
## 8 7.39 0.00 0.33 0.03 0.0554  
## 9 7.98 0.00 0.08 0.00 0.0757  
## 10 8.38 0.00 0.00 0.00 0.1252  
## 11 5.32 0.00 0.52 0.13 0.0226  
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## 14 11.95 0.00 0.00 0.00 0.0000  
## 15 8.86 0.00 0.22 0.00 0.1669  
## 16 7.65 0.00 0.17 0.00 0.1676  
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## 18 6.89 0.05 0.38 0.05 0.1882  
## 19 8.18 0.05 0.45 0.11 0.1059  
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## 21 9.15 0.06 0.36 0.00 0.0601  
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## 87 5.80 0.00 0.45 0.28 0.0282  
## 88 5.60 0.00 0.64 0.21 0.0713  
## 89 6.37 0.00 0.40 0.02 0.0398  
## 90 4.03 0.00 0.39 0.44 0.0484  
## 91 8.00 0.07 0.52 0.13 0.0656  
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## 270 5.85 0.01 0.44 0.23 0.0196  
## 271 8.28 0.04 0.66 0.60 0.0414  
## 272 11.09 0.00 0.00 0.00 0.0000  
## 273 8.83 0.01 0.39 0.08 0.0140  
## 274 7.64 0.00 0.00 0.67 0.0000  
## 275 5.60 0.05 0.69 0.32 0.0693  
## 276 7.95 0.00 0.10 0.39 0.0000  
## 277 4.81 0.00 0.27 0.18 0.0000  
## 278 6.17 0.07 0.57 0.34 0.0687  
## 279 8.47 0.00 0.39 0.10 0.0241  
## 280 4.95 0.00 0.18 0.13 0.0241  
## 281 8.78 0.00 0.56 0.30 0.0858  
## 282 6.11 0.00 0.70 0.14 0.1393  
## 283 7.64 0.02 0.82 0.45 0.0227  
## 284 4.34 0.04 0.99 0.67 0.0282  
## 285 5.87 0.00 0.53 0.51 0.0246  
## 286 6.96 0.00 0.42 0.48 0.0624  
## 287 5.13 0.00 0.45 0.95 0.0263  
## 288 5.90 0.00 0.48 0.56 0.0597  
## 289 7.85 0.00 0.44 0.58 0.0464  
## 290 4.87 0.02 1.09 0.60 0.0300  
## 291 6.90 0.00 0.58 0.36 0.0719  
## 292 8.24 0.00 0.30 0.13 0.0329  
## 293 8.53 0.00 0.27 0.05 0.0453  
## 294 8.49 0.00 0.55 0.46 0.0141  
## 295 11.76 0.00 0.28 0.44 0.0554  
## 296 7.52 0.01 0.41 0.37 0.0137  
## 297 8.79 0.00 0.12 0.00 0.0599  
## 298 4.46 0.01 0.47 0.19 0.0132  
## 299 7.26 0.00 0.30 0.10 0.0000  
## 300 4.62 0.02 0.49 0.35 0.0282  
## 301 5.04 0.00 0.59 1.47 0.0000  
## 302 6.27 0.00 0.53 0.26 0.0000  
## 303 3.27 0.00 0.63 0.91 0.0000  
## 304 7.42 0.00 0.89 0.57 0.0710  
## 305 10.28 0.00 0.23 0.46 0.0000  
## 306 6.18 0.00 0.00 0.00 0.0000  
## 307 5.82 0.00 0.30 0.60 0.0000  
## 308 6.94 0.00 0.40 0.24 0.0801  
## 309 5.56 0.00 0.18 0.36 0.0000  
## 310 5.56 0.01 0.85 0.88 0.0518  
## 311 6.05 0.02 0.78 0.35 0.0174  
## 312 5.84 0.00 0.49 0.00 0.0000  
## 313 10.21 0.03 0.31 0.32 0.0162  
## 314 6.78 0.00 0.19 0.00 0.0000  
## 315 5.93 0.00 0.68 0.35 0.0184  
## 316 5.73 0.00 0.12 0.12 0.0000  
## 317 6.30 0.00 0.20 0.12 0.0393  
## 318 9.20 0.00 0.51 0.08 0.0389  
## 319 7.52 0.03 0.24 0.07 0.0691  
## 320 12.56 0.00 0.08 0.00 0.0000  
## 321 3.09 0.00 0.45 0.28 0.0233  
## 322 7.49 0.02 0.50 0.19 0.0186  
## 323 6.41 0.01 0.33 0.18 0.0138  
## 324 8.42 0.01 0.37 0.31 0.0302  
## 325 7.62 0.04 0.76 0.51 0.0567  
## 326 7.28 0.02 0.36 0.14 0.0481  
## 327 7.45 0.00 0.36 0.22 0.0722  
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## 329 12.19 0.00 0.00 0.00 0.0000  
## 330 5.07 0.02 0.41 0.10 0.0242  
## 331 4.32 0.00 0.56 0.16 0.0000  
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## 333 5.43 0.00 0.32 0.00 0.1607  
## 334 5.39 0.00 0.19 0.00 0.0000  
## 335 8.09 0.00 0.00 0.00 0.0000  
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## 348 3.81 0.00 0.32 0.10 0.0036  
## 349 5.47 0.00 0.05 0.52 0.0000  
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## 351 10.51 0.02 0.37 0.11 0.0216  
## 352 2.20 0.00 0.74 0.59 0.1479  
## 353 4.69 0.00 0.67 0.12 0.1579  
## 354 5.65 0.00 0.06 0.06 0.0623  
## 355 2.10 0.00 0.71 0.35 0.0125  
## 356 10.84 0.00 0.48 0.00 0.0000  
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## 358 10.15 0.00 0.15 0.00 0.0000  
## 359 6.18 0.00 0.59 0.00 0.0000  
## 360 2.91 0.02 1.09 0.41 0.0261  
## 361 12.62 0.00 0.36 0.36 0.0600  
## 362 8.14 0.00 0.48 0.42 0.0595  
## 363 4.70 0.00 0.27 0.11 0.0265  
## 364 5.02 0.00 0.34 0.00 0.0000  
## 365 8.66 0.00 0.09 0.19 0.1884  
## 366 9.11 0.00 0.22 0.04 0.0861  
## 367 4.90 0.00 0.52 0.40 0.0508  
## 368 3.80 0.00 0.21 0.28 0.0258  
## 369 2.45 0.00 0.33 0.17 0.0064  
## 370 4.27 0.00 0.53 0.30 0.0230  
## 371 4.19 0.01 1.10 0.52 0.0440  
## 372 7.35 0.00 0.26 0.53 0.0881  
## 373 6.14 0.00 0.34 0.23 0.0440  
## 374 8.69 0.00 0.69 0.23 0.1143  
## 375 8.55 0.00 0.52 0.39 0.0000  
## 376 3.32 0.01 0.49 0.46 0.0409  
## 377 8.20 0.00 0.44 0.07 0.0730  
## 378 7.32 0.00 0.23 0.09 0.0000  
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## 380 6.12 0.00 0.52 0.09 0.1738  
## 381 6.70 0.00 0.42 0.21 0.0703  
## 382 10.36 0.00 0.16 0.48 0.0804  
## 383 7.94 0.00 0.54 0.13 0.2013  
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## 386 3.73 0.00 0.45 0.45 0.0784  
## 387 4.31 0.00 0.59 0.21 0.0423  
## 388 7.25 0.00 0.44 0.29 0.0491  
## 389 5.02 0.00 1.54 0.00 0.2200  
## 390 6.98 0.03 1.00 0.48 0.0333  
## 391 4.09 0.01 0.71 0.37 0.0920  
## 392 5.53 0.00 0.65 0.18 0.0220  
## 393 6.07 0.00 0.90 0.68 0.2260  
## 394 5.50 0.00 0.44 0.00 0.4396  
## 395 5.05 0.15 0.84 0.35 0.1484  
## population\_density days\_over\_90\_f median\_hh\_income.x median\_er\_dist  
## 1 35.94 97 50907 8.44  
## 2 89.56 80 55203 10.56  
## 3 188.69 84 50259 3.51  
## 4 63.72 94 52693 7.27  
## 5 76.94 105 54203 2.74  
## 6 36.00 107 43544 1.86  
## 7 22.71 103 45927 9.90  
## 8 39.01 107 37679 3.28  
## 9 45.93 106 39882 9.87  
## 10 12.71 104 33609 6.81  
## 11 275.45 93 88444 5.33  
## 12 63.63 58 48153 4.45  
## 13 16.64 102 41578 2.80  
## 14 8.21 103 50865 5.56  
## 15 22.04 102 46787 3.25  
## 16 29.21 89 47256 6.67  
## 17 19.90 70 39839 8.65  
## 18 29.83 99 42790 4.49  
## 19 49.21 78 50834 4.32  
## 20 40.05 88 39439 4.20  
## 21 19.65 41 45144 8.07  
## 22 13.35 100 41854 9.90  
## 23 23.34 58 42915 6.46  
## 24 51.15 39 52345 4.71  
## 25 141.21 110 58998 2.06  
## 26 1593.28 101 72953 2.50  
## 27 44.32 40 91185 14.67  
## 28 539.81 100 70685 2.41  
## 29 162.73 2 86136 1.99  
## 30 365.13 106 64501 1.87  
## 31 96.18 116 62058 2.15  
## 32 24.13 0 79422 19.51  
## 33 3.10 0 35639 26.91  
## 34 334.13 0 72459 2.79  
## 35 18.87 0 59764 1.98  
## 36 22.35 50 63297 1.98  
## 37 2.12 0 56012 23.34  
## 38 6.30 0 77099 37.47  
## 39 4.21 58 43354 3.67  
## 40 44.84 0 62845 4.93  
## 41 440.68 14 89970 6.50  
## 42 1309.56 44 75145 3.16  
## 43 1243.90 113 55202 3.69  
## 44 21.86 99 47206 11.13  
## 45 1523.01 128 69074 3.38  
## 46 723.12 123 52332 2.95  
## 47 64.32 123 46264 10.25  
## 48 36.26 109 44871 3.99  
## 49 81.25 76 62836 9.21  
## 50 42.36 115 45094 5.18  
## 51 27.29 99 44870 9.32  
## 52 79.24 68 44399 17.54  
## 53 15.00 108 35937 15.10  
## 54 72.72 111 44520 5.11  
## 55 82.55 105 36871 3.18  
## 56 41.79 102 42683 4.44  
## 57 58.35 109 51018 2.06  
## 58 66.64 10 44730 4.20  
## 59 191.85 83 47423 3.35  
## 60 104.93 61 51431 7.12  
## 61 38.20 91 57796 8.54  
## 62 72.66 95 64812 10.23  
## 63 102.64 85 55024 10.84  
## 64 83.55 109 74640 6.47  
## 65 42.08 79 45095 9.15  
## 66 526.46 67 77755 4.98  
## 67 136.15 69 51040 2.76  
## 68 34.03 102 40834 14.40  
## 69 155.46 57 49388 7.84  
## 70 46.68 108 48885 3.95  
## 71 11.88 0 53014 7.17  
## 72 25.78 0 55241 6.51  
## 73 1.95 2 51201 11.28  
## 74 40.29 21 57342 2.38  
## 75 37.23 5 59834 1.41  
## 76 6.97 11 49186 1.72  
## 77 32.33 31 53965 9.40  
## 78 5470.85 33 71611 1.18  
## 79 28.92 65 55832 15.91  
## 80 29.90 65 49030 7.63  
## 81 40.03 46 48828 5.57  
## 82 21.93 68 39674 5.91  
## 83 98.56 70 45608 1.73  
## 84 35.66 31 56446 10.28  
## 85 398.40 36 97263 5.70  
## 86 96.02 39 62714 3.76  
## 87 34.26 37 66274 11.93  
## 88 40.64 60 59497 3.02  
## 89 66.95 29 71470 11.98  
## 90 47.73 72 55132 1.30  
## 91 18.73 63 48815 8.06  
## 92 11.32 67 49071 12.63  
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## 97 99.55 61 64120 2.43  
## 98 86.43 56 62415 1.89  
## 99 59.74 38 70662 14.75  
## 100 34.80 38 59246 8.47  
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## 387 30.99 26 75075 9.83  
## 388 59.56 0 69077 6.42  
## 389 12.77 16 41365 8.05  
## 390 382.71 11 83274 3.58  
## 391 226.32 28 66138 1.44  
## 392 314.72 15 81659 4.59  
## 393 2.27 2 48864 2.40  
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## 395 9.79 0 71246 3.29  
## median\_trauma\_center\_dist median\_pediatric\_icu\_dist  
## 1 26.40 21.97  
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## 7 28.66 80.12  
## 8 40.44 58.54  
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## 10 32.72 32.72  
## 11 12.77 9.12  
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## 13 24.50 62.66  
## 14 15.90 62.03  
## 15 24.85 45.20  
## 16 6.67 100.01  
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## 18 25.55 4.49  
## 19 4.32 58.60  
## 20 4.20 83.19  
## 21 20.22 74.47  
## 22 27.51 15.80  
## 23 6.46 73.57  
## 24 15.09 30.50  
## 25 32.32 7.17  
## 26 4.05 5.15  
## 27 32.95 41.50  
## 28 5.70 35.27  
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## 31 8.76 5.79  
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## 34 3.70 3.87  
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## 52 19.01 38.25  
## 53 35.54 50.53  
## 54 25.58 78.41  
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## 57 27.43 49.44  
## 58 32.14 32.14  
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## 68 17.91 68.84  
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## 74 87.81 104.45  
## 75 1.41 22.39  
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## 77 17.89 16.31  
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## 79 38.06 38.06  
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## 81 25.78 27.34  
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## 83 34.77 3.12  
## 84 16.97 32.76  
## 85 6.54 16.41  
## 86 26.68 42.83  
## 87 31.25 47.15  
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## 89 22.83 20.93  
## 90 52.69 22.70  
## 91 36.33 8.06  
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## 93 21.16 17.63  
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## 123 11.94 42.97  
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## 193 13.98 16.82  
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## median\_health\_clinic\_dist median\_drug\_alcohol\_care\_dist  
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## 41 3.69 5.76  
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## 71 4.84 30.43  
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## 75 0.73 9.07  
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## 78 0.81 1.79  
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## 83 1.52 33.76  
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## 85 3.11 8.06  
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## 89 8.60 27.31  
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## 296 2.07 9.85  
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## 331 2.48 19.58  
## 332 1.22 14.30  
## 333 0.71 38.31  
## 334 6.81 78.96  
## 335 23.19 54.33  
## 336 2.70 23.57  
## 337 2.33 12.34  
## 338 14.73 17.69  
## 339 22.74 11.27  
## 340 1.03 42.12  
## 341 5.20 23.69  
## 342 8.45 25.05  
## 343 3.14 13.65  
## 344 2.65 59.77  
## 345 4.12 32.38  
## 346 13.79 3.82  
## 347 0.96 36.11  
## 348 1.29 3.29  
## 349 3.63 22.76  
## 350 0.94 42.24  
## 351 2.83 30.77  
## 352 3.10 50.52  
## 353 1.02 24.87  
## 354 4.09 18.28  
## 355 1.16 1.23  
## 356 5.26 25.59  
## 357 6.29 45.93  
## 358 4.54 11.97  
## 359 4.06 7.13  
## 360 3.30 5.66  
## 361 3.82 15.37  
## 362 5.79 30.10  
## 363 4.70 12.43  
## 364 7.84 19.85  
## 365 3.03 32.18  
## 366 2.10 32.16  
## 367 6.37 10.30  
## 368 2.93 5.20  
## 369 8.13 9.76  
## 370 0.89 31.64  
## 371 1.44 3.60  
## 372 5.36 22.69  
## 373 4.21 19.19  
## 374 2.43 24.34  
## 375 3.60 34.74  
## 376 2.94 12.46  
## 377 2.79 22.26  
## 378 1.34 4.18  
## 379 2.79 21.29  
## 380 3.37 40.33  
## 381 5.15 30.37  
## 382 5.44 30.53  
## 383 2.90 21.58  
## 384 5.67 13.41  
## 385 4.22 9.57  
## 386 3.76 13.28  
## 387 4.83 24.92  
## 388 6.06 19.16  
## 389 2.46 8.05  
## 390 15.89 4.82  
## 391 3.12 2.99  
## 392 22.82 5.30  
## 393 2.46 63.30  
## 394 2.25 47.30  
## 395 0.81 41.53  
## percent\_grandparents\_as\_guardians pct\_adult\_smokers pct\_obese\_adults  
## 1 12.543648 0.228 0.384  
## 2 6.226566 0.218 0.327  
## 3 5.798538 0.210 0.374  
## 4 4.091697 0.221 0.375  
## 5 4.730133 0.196 0.436  
## 6 8.664498 0.214 0.448  
## 7 10.018404 0.222 0.404  
## 8 13.276184 0.231 0.475  
## 9 6.417136 0.239 0.380  
## 10 6.397625 0.266 0.491  
## 11 3.608184 0.137 0.331  
## 12 6.972062 0.221 0.374  
## 13 5.082011 0.223 0.428  
## 14 10.454563 0.228 0.373  
## 15 6.749139 0.227 0.428  
## 16 7.734570 0.249 0.362  
## 17 6.305301 0.258 0.380  
## 18 9.128243 0.229 0.417  
## 19 8.926887 0.217 0.366  
## 20 5.419914 0.241 0.402  
## 21 9.026970 0.252 0.352  
## 22 8.572860 0.227 0.417  
## 23 7.645029 0.242 0.361  
## 24 4.428645 0.169 0.321  
## 25 3.834864 0.150 0.380  
## 26 3.177936 0.126 0.307  
## 27 3.451200 0.118 0.318  
## 28 2.843274 0.139 0.296  
## 29 3.112530 0.117 0.301  
## 30 3.213087 0.144 0.331  
## 31 3.224474 0.156 0.360  
## 32 0.460000 0.126 0.219  
## 33 17.260500 0.170 0.299  
## 34 3.092703 0.149 0.270  
## 35 3.737139 0.167 0.268  
## 36 3.985730 0.175 0.337  
## 37 5.489376 0.176 0.268  
## 38 1.364488 0.121 0.231  
## 39 4.270704 0.183 0.280  
## 40 2.211174 0.146 0.240  
## 41 2.410200 0.142 0.284  
## 42 3.851694 0.148 0.337  
## 43 3.925108 0.185 0.346  
## 44 10.048500 0.234 0.384  
## 45 3.312260 0.159 0.304  
## 46 3.436576 0.215 0.316  
## 47 9.002358 0.243 0.356  
## 48 11.396001 0.248 0.380  
## 49 4.721004 0.223 0.365  
## 50 8.933736 0.244 0.365  
## 51 7.959195 0.228 0.419  
## 52 7.403706 0.265 0.387  
## 53 23.705676 0.243 0.445  
## 54 7.347378 0.245 0.395  
## 55 11.671554 0.255 0.414  
## 56 5.271853 0.228 0.390  
## 57 5.700132 0.237 0.401  
## 58 1.579200 0.203 0.310  
## 59 5.163711 0.207 0.381  
## 60 6.872068 0.210 0.325  
## 61 5.656860 0.223 0.376  
## 62 2.435648 0.195 0.360  
## 63 7.111470 0.212 0.370  
## 64 4.603060 0.168 0.347  
## 65 10.392448 0.230 0.411  
## 66 2.827923 0.170 0.343  
## 67 8.056972 0.218 0.401  
## 68 8.485210 0.259 0.439  
## 69 11.020173 0.211 0.339  
## 70 9.467835 0.230 0.359  
## 71 5.640514 0.197 0.335  
## 72 5.140446 0.170 0.302  
## 73 2.494672 0.179 0.321  
## 74 2.916260 0.181 0.365  
## 75 1.379748 0.149 0.298  
## 76 4.426830 0.185 0.375  
## 77 2.974332 0.189 0.368  
## 78 3.422484 0.134 0.299  
## 79 5.902080 0.202 0.365  
## 80 6.373087 0.224 0.389  
## 81 3.346434 0.201 0.375  
## 82 7.990000 0.219 0.369  
## 83 4.315480 0.191 0.388  
## 84 3.711816 0.177 0.370  
## 85 1.379034 0.137 0.354  
## 86 3.212930 0.197 0.358  
## 87 5.419168 0.201 0.364  
## 88 4.442592 0.211 0.380  
## 89 1.774224 0.182 0.372  
## 90 6.134254 0.228 0.401  
## 91 5.018472 0.220 0.393  
## 92 4.720000 0.227 0.387  
## 93 3.298100 0.206 0.368  
## 94 2.567880 0.215 0.364  
## 95 6.672973 0.236 0.395  
## 96 4.171416 0.230 0.403  
## 97 1.312415 0.189 0.383  
## 98 6.068790 0.222 0.376  
## 99 3.444284 0.220 0.344  
## 100 7.601981 0.232 0.398  
## 101 3.322242 0.193 0.376  
## 102 2.139984 0.210 0.389  
## 103 3.427704 0.236 0.366  
## 104 8.200154 0.204 0.364  
## 105 3.075827 0.215 0.365  
## 106 1.925040 0.183 0.358  
## 107 0.712470 0.175 0.393  
## 108 2.340627 0.177 0.391  
## 109 2.709894 0.156 0.361  
## 110 2.742504 0.188 0.391  
## 111 6.066076 0.167 0.319  
## 112 4.927039 0.180 0.369  
## 113 3.720960 0.166 0.376  
## 114 0.602688 0.152 0.353  
## 115 10.158238 0.213 0.391  
## 116 2.349437 0.181 0.382  
## 117 10.788423 0.180 0.393  
## 118 2.727200 0.198 0.391  
## 119 4.186182 0.189 0.375  
## 120 6.062634 0.206 0.387  
## 121 1.596504 0.204 0.398  
## 122 2.701925 0.183 0.365  
## 123 1.311504 0.173 0.375  
## 124 2.334280 0.184 0.365  
## 125 1.909600 0.196 0.374  
## 126 2.207524 0.189 0.364  
## 127 5.117248 0.176 0.365  
## 128 1.232000 0.192 0.394  
## 129 1.167595 0.182 0.364  
## 130 8.315703 0.165 0.368  
## 131 8.927900 0.215 0.387  
## 132 3.779360 0.232 0.460  
## 133 6.420050 0.256 0.400  
## 134 4.471935 0.218 0.381  
## 135 4.707420 0.244 0.381  
## 136 7.836772 0.288 0.428  
## 137 4.566240 0.247 0.394  
## 138 3.598034 0.290 0.417  
## 139 8.716820 0.198 0.351  
## 140 7.677450 0.230 0.377  
## 141 6.377289 0.243 0.381  
## 142 3.237222 0.188 0.385  
## 143 9.075174 0.215 0.357  
## 144 6.810438 0.183 0.337  
## 145 6.273198 0.223 0.414  
## 146 7.693178 0.212 0.419  
## 147 6.202174 0.193 0.440  
## 148 6.219350 0.217 0.401  
## 149 3.273450 0.228 0.353  
## 150 3.567022 0.138 0.317  
## 151 1.920270 0.117 0.314  
## 152 1.192024 0.087 0.255  
## 153 2.110329 0.130 0.273  
## 154 1.310400 0.098 0.209  
## 155 3.354780 0.191 0.355  
## 156 5.097559 0.261 0.395  
## 157 5.191290 0.224 0.369  
## 158 2.717496 0.176 0.362  
## 159 2.209844 0.222 0.386  
## 160 2.370708 0.178 0.329  
## 161 2.345272 0.165 0.347  
## 162 2.077176 0.201 0.410  
## 163 1.232140 0.163 0.335  
## 164 4.201318 0.216 0.387  
## 165 4.605835 0.205 0.370  
## 166 2.207876 0.138 0.308  
## 167 1.555099 0.181 0.308  
## 168 3.568875 0.214 0.364  
## 169 1.172202 0.180 0.375  
## 170 2.086770 0.155 0.314  
## 171 0.822962 0.192 0.404  
## 172 1.483650 0.181 0.356  
## 173 15.514880 0.210 0.455  
## 174 3.767540 0.156 0.385  
## 175 6.901776 0.209 0.409  
## 176 5.368770 0.177 0.386  
## 177 4.285688 0.131 0.337  
## 178 7.172182 0.225 0.442  
## 179 11.348936 0.215 0.372  
## 180 8.145306 0.212 0.406  
## 181 2.607136 0.206 0.401  
## 182 18.423928 0.251 0.444  
## 183 0.942087 0.220 0.402  
## 184 10.220000 0.211 0.361  
## 185 3.249640 0.159 0.328  
## 186 2.511044 0.259 0.374  
## 187 4.365114 0.233 0.388  
## 188 2.889030 0.200 0.358  
## 189 3.288780 0.207 0.411  
## 190 3.540938 0.221 0.364  
## 191 7.180000 0.228 0.376  
## 192 3.156489 0.241 0.375  
## 193 3.817760 0.218 0.348  
## 194 3.348450 0.206 0.389  
## 195 4.583250 0.226 0.365  
## 196 4.618528 0.227 0.408  
## 197 5.982176 0.287 0.407  
## 198 2.218546 0.170 0.338  
## 199 2.926924 0.176 0.335  
## 200 1.578305 0.156 0.278  
## 201 4.048975 0.142 0.264  
## 202 1.462500 0.160 0.250  
## 203 0.481429 0.185 0.367  
## 204 3.980000 0.163 0.317  
## 205 0.813570 0.165 0.365  
## 206 2.892800 0.188 0.358  
## 207 0.105000 0.183 0.337  
## 208 1.674561 0.150 0.328  
## 209 4.259772 0.178 0.401  
## 210 2.980000 0.214 0.403  
## 211 1.110000 0.163 0.367  
## 212 1.850888 0.155 0.361  
## 213 1.314450 0.171 0.365  
## 214 3.749050 0.168 0.311  
## 215 1.659557 0.151 0.288  
## 216 1.459584 0.163 0.299  
## 217 2.950805 0.128 0.300  
## 218 5.071962 0.191 0.357  
## 219 1.547706 0.113 0.221  
## 220 1.349320 0.095 0.243  
## 221 7.650000 0.222 0.292  
## 222 7.348285 0.233 0.388  
## 223 9.282312 0.176 0.306  
## 224 8.115324 0.183 0.334  
## 225 2.778528 0.179 0.343  
## 226 7.578200 0.154 0.273  
## 227 4.995972 0.177 0.345  
## 228 8.539900 0.191 0.316  
## 229 4.059198 0.190 0.330  
## 230 5.503930 0.191 0.330  
## 231 4.279192 0.178 0.291  
## 232 3.260120 0.144 0.285  
## 233 6.126140 0.208 0.363  
## 234 2.888898 0.176 0.326  
## 235 3.399622 0.194 0.313  
## 236 2.622510 0.151 0.337  
## 237 4.061259 0.150 0.271  
## 238 4.151004 0.189 0.326  
## 239 6.148856 0.204 0.337  
## 240 11.762177 0.204 0.359  
## 241 3.087414 0.151 0.312  
## 242 7.930920 0.196 0.321  
## 243 11.004655 0.234 0.416  
## 244 5.440446 0.201 0.375  
## 245 5.850600 0.204 0.341  
## 246 8.533107 0.213 0.394  
## 247 3.870528 0.207 0.386  
## 248 4.100118 0.173 0.312  
## 249 3.723264 0.182 0.323  
## 250 3.286712 0.193 0.322  
## 251 5.227730 0.209 0.351  
## 252 6.172360 0.233 0.405  
## 253 4.204054 0.182 0.358  
## 254 11.711280 0.233 0.367  
## 255 3.147312 0.158 0.300  
## 256 6.273572 0.234 0.419  
## 257 3.459375 0.172 0.358  
## 258 0.299141 0.189 0.332  
## 259 6.611582 0.221 0.366  
## 260 4.638144 0.212 0.370  
## 261 0.984334 0.145 0.316  
## 262 5.146835 0.271 0.446  
## 263 3.636748 0.211 0.361  
## 264 4.402296 0.224 0.378  
## 265 2.417400 0.211 0.351  
## 266 7.706052 0.294 0.467  
## 267 3.420912 0.234 0.386  
## 268 7.932864 0.204 0.360  
## 269 7.907640 0.257 0.426  
## 270 3.336450 0.173 0.349  
## 271 6.366330 0.221 0.413  
## 272 12.765249 0.237 0.410  
## 273 5.161455 0.226 0.363  
## 274 6.773820 0.246 0.398  
## 275 7.591276 0.225 0.409  
## 276 2.079996 0.237 0.407  
## 277 4.438420 0.209 0.383  
## 278 9.035074 0.251 0.368  
## 279 11.913820 0.280 0.403  
## 280 4.327584 0.192 0.361  
## 281 1.242792 0.173 0.289  
## 282 0.975409 0.188 0.311  
## 283 5.525038 0.191 0.304  
## 284 1.787583 0.143 0.257  
## 285 3.639504 0.189 0.345  
## 286 6.690450 0.211 0.312  
## 287 3.614560 0.223 0.354  
## 288 3.172947 0.217 0.321  
## 289 4.867338 0.229 0.390  
## 290 1.631126 0.134 0.280  
## 291 9.940194 0.210 0.426  
## 292 4.245750 0.262 0.436  
## 293 9.524700 0.220 0.415  
## 294 4.107521 0.198 0.445  
## 295 13.830999 0.242 0.411  
## 296 4.687452 0.204 0.348  
## 297 22.426902 0.238 0.443  
## 298 5.211168 0.181 0.369  
## 299 2.599540 0.220 0.420  
## 300 8.204812 0.210 0.411  
## 301 11.056472 0.297 0.385  
## 302 1.796778 0.189 0.349  
## 303 0.211005 0.175 0.346  
## 304 1.212822 0.192 0.341  
## 305 1.376706 0.178 0.339  
## 306 1.620957 0.186 0.347  
## 307 13.103706 0.318 0.395  
## 308 0.229218 0.169 0.321  
## 309 1.108968 0.171 0.334  
## 310 6.226357 0.181 0.337  
## 311 4.824171 0.238 0.376  
## 312 7.479792 0.246 0.404  
## 313 8.894409 0.232 0.367  
## 314 6.624538 0.252 0.394  
## 315 4.632288 0.230 0.364  
## 316 5.388408 0.255 0.375  
## 317 8.336856 0.286 0.420  
## 318 7.990056 0.278 0.393  
## 319 10.213838 0.264 0.369  
## 320 6.528618 0.259 0.364  
## 321 3.506229 0.200 0.380  
## 322 8.771030 0.220 0.366  
## 323 5.913852 0.216 0.344  
## 324 5.487124 0.233 0.356  
## 325 7.465770 0.232 0.335  
## 326 9.025239 0.262 0.367  
## 327 10.932908 0.264 0.368  
## 328 17.253075 0.229 0.436  
## 329 3.964791 0.194 0.362  
## 330 5.179727 0.191 0.356  
## 331 4.502285 0.181 0.343  
## 332 11.536322 0.188 0.408  
## 333 0.000000 0.207 0.400  
## 334 4.045862 0.198 0.386  
## 335 18.026000 0.220 0.425  
## 336 4.099680 0.193 0.363  
## 337 4.494108 0.194 0.372  
## 338 3.284059 0.134 0.332  
## 339 5.254496 0.173 0.362  
## 340 2.663248 0.207 0.406  
## 341 5.659325 0.177 0.412  
## 342 15.998796 0.228 0.393  
## 343 6.198540 0.203 0.361  
## 344 2.097762 0.179 0.396  
## 345 5.356650 0.251 0.408  
## 346 6.077177 0.201 0.345  
## 347 3.753900 0.224 0.416  
## 348 5.950997 0.167 0.446  
## 349 9.694400 0.200 0.464  
## 350 4.512996 0.181 0.375  
## 351 7.234500 0.211 0.352  
## 352 1.215180 0.099 0.278  
## 353 1.506211 0.105 0.326  
## 354 8.042582 0.199 0.367  
## 355 0.926182 0.090 0.278  
## 356 1.755000 0.212 0.374  
## 357 2.767138 0.230 0.423  
## 358 3.607740 0.212 0.401  
## 359 5.215386 0.185 0.332  
## 360 1.195002 0.094 0.221  
## 361 5.363405 0.197 0.332  
## 362 6.518535 0.215 0.392  
## 363 7.161480 0.173 0.356  
## 364 0.497736 0.174 0.347  
## 365 21.812096 0.173 0.359  
## 366 11.217375 0.261 0.392  
## 367 2.753967 0.169 0.357  
## 368 6.150228 0.175 0.358  
## 369 3.035270 0.141 0.365  
## 370 2.746184 0.160 0.334  
## 371 1.577070 0.095 0.209  
## 372 1.507594 0.170 0.305  
## 373 3.631509 0.180 0.345  
## 374 1.088984 0.117 0.257  
## 375 6.253280 0.183 0.314  
## 376 3.572479 0.215 0.381  
## 377 9.602055 0.275 0.399  
## 378 5.294125 0.223 0.387  
## 379 5.262669 0.255 0.405  
## 380 5.859475 0.250 0.400  
## 381 5.753621 0.243 0.368  
## 382 5.552778 0.255 0.415  
## 383 15.177392 0.251 0.411  
## 384 3.111524 0.195 0.340  
## 385 4.654928 0.192 0.352  
## 386 0.568986 0.202 0.375  
## 387 1.324642 0.166 0.332  
## 388 1.201824 0.177 0.331  
## 389 19.100095 0.300 0.465  
## 390 0.941148 0.128 0.306  
## 391 2.094924 0.184 0.351  
## 392 0.952476 0.154 0.300  
## 393 1.131705 0.199 0.333  
## 394 3.540000 0.226 0.345  
## 395 5.305318 0.189 0.346  
## pct\_binge\_drinkers pct\_under\_65\_no\_health\_insurance pct\_highschool\_diploma  
## 1 0.1591628 0.13007878 0.8053808  
## 2 0.1631069 0.13254672 0.8364808  
## 3 0.1618824 0.12925001 0.8521486  
## 4 0.1637214 0.15262982 0.8176132  
## 5 0.1525075 0.13694497 0.8635622  
## 6 0.1538523 0.12093237 0.8518224  
## 7 0.1543584 0.12907140 0.8123047  
## 8 0.1238114 0.11498424 0.8590752  
## 9 0.1640924 0.15048235 0.8249176  
## 10 0.1100601 0.11572438 0.8444163  
## 11 0.1725276 0.09287136 0.9362423  
## 12 0.1871624 0.10341049 0.8911182  
## 13 0.1532950 0.12779126 0.8412633  
## 14 0.1688066 0.10275622 0.8420593  
## 15 0.1515314 0.09104078 0.8696509  
## 16 0.1688094 0.10097280 0.8647801  
## 17 0.1669066 0.09060290 0.8589537  
## 18 0.1571884 0.11352234 0.8383367  
## 19 0.1654121 0.09921828 0.8578404  
## 20 0.1582605 0.12529640 0.8008022  
## 21 0.1685586 0.11721834 0.8491124  
## 22 0.1571341 0.08116936 0.9096785  
## 23 0.1678039 0.12779207 0.8846917  
## 24 0.2153363 0.07697079 0.8659515  
## 25 0.1860544 0.10536638 0.7035313  
## 26 0.1921516 0.06382683 0.8806522  
## 27 0.2078402 0.08258492 0.8325122  
## 28 0.2066016 0.07728668 0.8029947  
## 29 0.2149991 0.11740461 0.8190802  
## 30 0.2063351 0.07446940 0.7995312  
## 31 0.1812890 0.09459181 0.7261810  
## 32 0.2280631 0.08322130 0.9734794  
## 33 0.1701854 0.14623656 0.8686131  
## 34 0.1673514 0.08676184 0.9444956  
## 35 0.1918472 0.14449182 0.8878449  
## 36 0.1921741 0.16319060 0.8071670  
## 37 0.1805647 0.15576386 0.8665966  
## 38 0.2155152 0.13391796 0.9828581  
## 39 0.1962477 0.13589744 0.8873642  
## 40 0.2053653 0.08357634 0.9784116  
## 41 0.2127264 0.03878275 0.9498669  
## 42 0.1866221 0.06979176 0.9237369  
## 43 0.1858930 0.13104351 0.9049960  
## 44 0.1816550 0.18346008 0.7889144  
## 45 0.1624071 0.14773378 0.8946710  
## 46 0.1979093 0.13186927 0.9043439  
## 47 0.1800154 0.17026791 0.8290687  
## 48 0.1610822 0.19856175 0.7779577  
## 49 0.1780924 0.22084636 0.7690163  
## 50 0.1638629 0.18344677 0.8058345  
## 51 0.1529346 0.14651201 0.8392073  
## 52 0.1665374 0.17126516 0.7198344  
## 53 0.1307944 0.17098446 0.8042971  
## 54 0.1492017 0.20382804 0.7717946  
## 55 0.1364914 0.18184571 0.8337689  
## 56 0.1636026 0.15708786 0.8590821  
## 57 0.1480626 0.18649439 0.7717807  
## 58 0.1779435 0.18666886 0.8763529  
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## 60 0.1811155 0.16111554 0.8307008  
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## inequality\_ratio social\_clubs\_per\_10k air\_polution\_metric water\_quality  
## 1 5.034985 9.035056 9.8 0  
## 2 4.803718 6.738195 9.6 0  
## 3 4.819868 13.395729 9.7 0  
## 4 4.131532 14.865869 9.9 0  
## 5 4.790742 12.586887 9.1 0  
## 6 5.483394 11.643650 9.1 0  
## 7 5.808434 9.502229 9.1 0  
## 8 5.423674 14.405230 9.5 0  
## 9 4.948050 9.087123 9.0 0  
## 10 5.804842 8.760951 9.3 0  
## 11 3.949793 10.161317 10.6 1  
## 12 4.232737 11.428571 7.9 0  
## 13 5.584060 14.099069 9.4 0  
## 14 4.197809 9.778995 9.6 0  
## 15 5.588832 10.569060 9.1 0  
## 16 5.070530 10.616304 8.9 1  
## 17 4.960161 7.269203 7.8 1  
## 18 4.902343 9.880958 9.7 1  
## 19 4.197146 11.918320 8.6 0  
## 20 4.119628 7.920643 8.8 0  
## 21 4.548376 3.604903 8.0 0  
## 22 4.309230 8.643042 9.7 1  
## 23 4.480671 14.208149 8.7 0  
## 24 5.221935 6.358659 3.1 1  
## 25 4.404200 4.010714 9.6 1  
## 26 4.552154 7.183420 8.4 1  
## 27 3.667887 4.059012 4.9 1  
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## 29 4.716894 7.824339 6.8 1  
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## 32 4.522815 0.000000 4.3 1  
## 33 5.853700 0.000000 3.8 1  
## 34 4.063948 8.650163 5.0 1  
## 35 4.217239 8.771525 4.2 1  
## 36 4.062252 9.674856 6.2 1  
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## 39 5.482152 13.274336 4.7 0  
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## 44 4.982843 13.933284 7.6 1  
## 45 4.509695 7.077776 6.5 1  
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## 47 4.464403 8.026577 8.0 0  
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## 69 4.158517 9.412973 9.4 0  
## 70 5.813246 12.656963 8.8 0  
## 71 3.712786 8.483563 10.1 0  
## 72 4.257250 10.039088 10.4 1  
## 73 4.278824 3.566546 6.7 1  
## 74 3.632472 6.103019 3.9 0  
## 75 4.462264 10.041636 8.7 1  
## 76 4.296865 3.861004 6.5 0  
## 77 4.045819 13.341760 9.2 0  
## 78 5.474922 7.121765 10.8 0  
## 79 4.166343 28.319698 8.7 0  
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## 82 4.332311 10.504202 8.5 1  
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## 85 2.788713 5.205224 10.1 1  
## 86 4.294286 12.828736 9.7 1  
## 87 4.230335 17.789575 9.3 0  
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## 91 4.784316 8.530743 8.2 0  
## 92 6.708235 19.314341 8.7 0  
## 93 5.068595 13.334950 8.7 0  
## 94 5.023136 26.189764 8.7 0  
## 95 3.969920 8.008237 8.7 0  
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## 97 3.918928 13.868647 8.4 0  
## 98 4.120822 12.663380 8.5 0  
## 99 4.107843 13.755981 8.9 0  
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## 108 4.274749 15.192136 6.6 0  
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## 112 3.807943 15.966939 7.4 0  
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## 157 4.731557 6.437308 6.0 0  
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## 170 4.529252 11.589643 8.1 0  
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## 178 4.446435 11.403728 9.5 0  
## 179 5.260720 12.768035 9.2 0  
## 180 4.508325 4.901961 9.0 0  
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## 183 6.171745 11.024056 7.5 0  
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## 193 3.730233 11.291509 8.9 1  
## 194 4.444040 11.497953 7.4 0  
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## 220 4.560648 9.747033 8.4 1  
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## 222 5.971364 6.071185 4.2 0  
## 223 7.532663 29.886432 4.5 0  
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## pct\_high\_housing\_costs pct\_overcrowded\_hh pct\_30\_min\_plus\_commute  
## 1 0.07985348 0.011611031 0.551  
## 2 0.07380601 0.017989926 0.595  
## 3 0.09838489 0.016814259 0.300  
## 4 0.11185830 0.029837519 0.508  
## 5 0.07904374 0.017565872 0.308  
## 6 0.09875173 0.021212121 0.279  
## 7 0.06912065 0.008897877 0.463  
## 8 0.14283875 0.019170333 0.316  
## 9 0.10196078 0.016273471 0.411  
## 10 0.15401070 0.022033898 0.421  
## 11 0.08132301 0.009104609 0.493  
## 12 0.07922382 0.019953442 0.218  
## 13 0.10301624 0.027149321 0.336  
## 14 0.06868132 0.010270270 0.332  
## 15 0.09992748 0.019566737 0.252  
## 16 0.13143736 0.031821561 0.388  
## 17 0.08796764 0.047035176 0.421  
## 18 0.09254853 0.028165534 0.313  
## 19 0.08776877 0.029958101 0.156  
## 20 0.09854015 0.040805785 0.181  
## 21 0.06521739 0.028662420 0.556  
## 22 0.06726727 0.011487482 0.416  
## 23 0.12620412 0.045482110 0.210  
## 24 0.16436436 0.034489478 0.415  
## 25 0.15575120 0.087489064 0.329  
## 26 0.17167262 0.049417614 0.399  
## 27 0.14854772 0.076647367 0.533  
## 28 0.17317386 0.074027082 0.421  
## 29 0.19146874 0.107332625 0.213  
## 30 0.16430957 0.069091432 0.372  
## 31 0.18193128 0.096715857 0.259  
## 32 0.09916974 0.008873720 0.520  
## 33 0.13565217 0.045845272 0.340  
## 34 0.13204661 0.027747034 0.283  
## 35 0.13250883 0.023628938 0.165  
## 36 0.11074197 0.041628545 0.180  
## 37 0.13854352 0.041958042 0.331  
## 38 0.21295249 0.029577465 0.249  
## 39 0.09408034 0.031088083 0.260  
## 40 0.10881339 0.020487805 0.532  
## 41 0.13196591 0.008809915 0.419  
## 42 0.12997499 0.013749211 0.333  
## 43 0.14193137 0.023933027 0.357  
## 44 0.10769231 0.029246344 0.247  
## 45 0.17391208 0.033300484 0.462  
## 46 0.12223328 0.015572968 0.521  
## 47 0.10994231 0.035930155 0.411  
## 48 0.08024691 0.025544703 0.291  
## 49 0.07814871 0.027448071 0.475  
## 50 0.10442350 0.012763069 0.276  
## 51 0.09021807 0.034167175 0.441  
## 52 0.09196035 0.071274298 0.351  
## 53 0.17105263 0.019354839 0.219  
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## 60 0.11399195 0.018206039 0.393  
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## 62 0.10762548 0.012990654 0.482  
## 63 0.14630091 0.002925327 0.421  
## 64 0.08929452 0.014180929 0.246  
## 65 0.11916509 0.015403727 0.622  
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## 68 0.11138211 0.015261044 0.475  
## 69 0.10610807 0.023869105 0.439  
## 70 0.07391091 0.031250000 0.306  
## 71 0.08296296 0.040935673 0.271  
## 72 0.12586806 0.023952096 0.373  
## 73 0.10967742 0.039812646 0.250  
## 74 0.10056568 0.036783042 0.187  
## 75 0.14589467 0.017509728 0.226  
## 76 0.11801242 0.022304833 0.222  
## 77 0.08093750 0.005069124 0.338  
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## 90 0.09408213 0.013040901 0.393  
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## 103 0.13116302 0.019407072 0.170  
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## 119 0.20299041 0.642907766 better 1 0  
## 120 0.26704832 0.612647630 better 1 0  
## 121 0.16412214 1.000000000 worse 1 0  
## 122 0.20042366 0.988183624 better 1 0  
## 123 0.21320346 0.621023161 better 1 0  
## 124 0.25522778 1.000000000 better 1 0  
## 125 0.26129217 1.000000000 better 1 0  
## 126 0.21054351 0.322079536 better 1 0  
## 127 0.27498927 1.000000000 better 1 0  
## 128 0.17612525 1.000000000 worse 1 0  
## 129 0.26423201 1.000000000 better 1 0  
## 130 0.21517771 1.000000000 better 1 0  
## 131 0.23176167 0.726857264 better 1 0  
## 132 0.13120937 0.060626647 worse 1 0  
## 133 0.17798317 1.000000000 worse 0 0  
## 134 0.16845558 0.304134878 worse 0 0  
## 135 0.12613845 0.285552025 worse 0 0  
## 136 0.19087713 0.838711313 worse 0 0  
## 137 0.18937594 0.694081517 worse 0 0  
## 138 0.20706758 1.000000000 worse 0 0  
## 139 0.15289215 1.000000000 worse 0 0  
## 140 0.18254240 0.521907637 worse 0 0  
## 141 0.17842907 0.946986037 worse 0 0  
## 142 0.15245772 0.243419759 worse 0 0  
## 143 0.17933071 1.000000000 worse 0 0  
## 144 0.16623295 0.005918640 worse 0 0  
## 145 0.12621447 0.042538374 worse 0 0  
## 146 0.18802553 0.277033753 worse 0 0  
## 147 0.15367986 0.134461284 worse 0 0  
## 148 0.16175442 0.546216314 worse 0 0  
## 149 0.25058706 0.802657576 better 0 1  
## 150 0.17890985 0.065338019 better 0 0  
## 151 0.15070667 0.252077040 better 0 0  
## 152 0.14703060 0.092516154 better 0 0  
## 153 0.17879277 0.042440447 better 0 1  
## 154 0.15942299 0.030277064 better 0 1  
## 155 0.28161088 1.000000000 better 1 0  
## 156 0.24712699 0.706428248 worse 1 0  
## 157 0.25946683 0.725877505 better 1 0  
## 158 0.19479733 0.379717703 better 1 0  
## 159 0.28786296 0.681682596 better 1 0  
## 160 0.14439821 0.132063583 better 1 0  
## 161 0.14552782 0.156753321 better 1 0  
## 162 0.19721897 0.518219677 better 1 0  
## 163 0.18842750 0.369050711 better 1 0  
## 164 0.17990947 0.233146328 worse 1 0  
## 165 0.19404216 0.549753709 better 1 0  
## 166 0.15139825 0.164464850 better 1 0  
## 167 0.14722864 0.268929749 better 1 0  
## 168 0.17981818 0.551658848 better 1 0  
## 169 0.13662427 0.279191173 better 1 0  
## 170 0.15300861 0.001871658 better 1 0  
## 171 0.21352336 0.691263466 better 1 0  
## 172 0.18214789 0.345348905 better 1 0  
## 173 0.20925664 1.000000000 worse 0 0  
## 174 0.13928345 0.455808747 worse 0 0  
## 175 0.18112585 0.482550678 worse 0 0  
## 176 0.15354174 0.453648535 worse 0 0  
## 177 0.14271534 0.279812611 better 0 0  
## 178 0.15881586 0.721695443 worse 0 0  
## 179 0.18928155 0.848380177 worse 0 0  
## 180 0.16863334 0.788147982 worse 0 0  
## 181 0.17710107 1.000000000 worse 0 0  
## 182 0.14063626 0.446071620 worse 0 0  
## 183 0.15398054 0.378529308 worse 1 0  
## 184 0.25372564 1.000000000 worse 1 0  
## 185 0.13404003 0.187860454 better 1 0  
## 186 0.22055155 0.685699687 worse 1 0  
## 187 0.19261299 1.000000000 worse 1 0  
## 188 0.16909910 0.139976887 worse 1 0  
## 189 0.16176774 0.301961753 better 1 0  
## 190 0.14279219 0.748297379 better 1 0  
## 191 0.23079128 1.000000000 worse 1 0  
## 192 0.23955464 1.000000000 worse 1 0  
## 193 0.18677803 0.644371408 worse 1 0  
## 194 0.15874291 0.434317501 worse 1 0  
## 195 0.17666885 0.688698333 worse 1 0  
## 196 0.20306707 1.000000000 worse 1 0  
## 197 0.24372366 1.000000000 worse 1 0  
## 198 0.20300436 0.179075135 better 0 0  
## 199 0.20687332 0.275708231 better 0 0  
## 200 0.23295910 1.000000000 better 0 0  
## 201 0.16728435 0.223268282 better 0 0  
## 202 0.24042809 0.477359939 better 0 0  
## 203 0.20605432 0.249557835 better 1 0  
## 204 0.19563083 0.399368329 better 1 0  
## 205 0.23133790 1.000000000 better 1 0  
## 206 0.27695487 1.000000000 better 1 0  
## 207 0.18566591 1.000000000 better 1 0  
## 208 0.14861608 0.082531262 better 1 0  
## 209 0.20607623 0.305197310 better 1 0  
## 210 0.28257457 1.000000000 better 1 0  
## 211 0.20219313 0.418807140 better 1 0  
## 212 0.17823662 0.314266216 better 1 0  
## 213 0.27091768 1.000000000 better 1 0  
## 214 0.15433924 0.013060731 worse 0 0  
## 215 0.29417476 0.902024342 better 0 1  
## 216 0.16007884 0.324013545 better 0 1  
## 217 0.17685652 0.066631902 better 0 1  
## 218 0.15853984 0.230270622 worse 0 1  
## 219 0.18672543 0.037294965 better 0 1  
## 220 0.16667583 0.057926565 better 0 1  
## 221 0.42508711 1.000000000 worse 0 0  
## 222 0.16984255 0.553448719 worse 0 0  
## 223 0.29702381 1.000000000 worse 0 0  
## 224 0.17701388 0.295938681 better 0 0  
## 225 0.14974499 0.364607478 worse 0 0  
## 226 0.19108272 0.170582467 better 0 0  
## 227 0.37045731 0.339506173 better 0 0  
## 228 0.22029137 0.987853263 worse 0 0  
## 229 0.20586452 0.557818709 better 0 1  
## 230 0.19827804 0.241787684 better 0 1  
## 231 0.17108246 0.442739582 better 0 1  
## 232 0.18513221 0.253993438 better 0 1  
## 233 0.17749073 0.626756333 better 0 1  
## 234 0.14585322 0.480491100 better 0 1  
## 235 0.19606367 0.868497803 better 0 1  
## 236 0.18274273 0.064499747 better 0 1  
## 237 0.17684342 0.081563011 better 0 1  
## 238 0.20618151 0.678989496 better 0 1  
## 239 0.26917749 0.848649243 better 0 0  
## 240 0.25044976 0.656002010 worse 0 0  
## 241 0.25283416 0.659223683 better 0 0  
## 242 0.32637722 1.000000000 better 0 0  
## 243 0.20582129 0.805948570 worse 0 0  
## 244 0.12613708 0.133681452 worse 0 0  
## 245 0.18760878 0.473845455 better 0 0  
## 246 0.19699062 0.864644048 worse 0 0  
## 247 0.21898514 1.000000000 better 0 0  
## 248 0.16206347 0.379121534 better 0 0  
## 249 0.18806736 0.545531208 better 0 0  
## 250 0.22746721 0.906183780 better 0 0  
## 251 0.21575316 0.768364631 worse 0 0  
## 252 0.28285364 0.893660347 worse 0 0  
## 253 0.14289448 0.254359255 better 0 0  
## 254 0.18198202 0.455305646 worse 0 0  
## 255 0.13194444 0.272892117 better 0 0  
## 256 0.26878798 1.000000000 worse 0 0  
## 257 0.23144549 0.395535876 better 1 0  
## 258 0.26181625 1.000000000 better 1 0  
## 259 0.11581036 1.000000000 better 1 0  
## 260 0.17683479 0.227165173 better 1 0  
## 261 0.14586844 0.193101588 better 1 0  
## 262 0.18238428 0.477506028 worse 1 0  
## 263 0.16096565 0.022318769 better 1 0  
## 264 0.17081439 0.046600953 worse 1 0  
## 265 0.17662056 0.328133615 better 1 0  
## 266 0.18774030 0.542774123 worse 1 0  
## 267 0.17385414 0.511118305 better 1 0  
## 268 0.20105079 1.000000000 worse 0 0  
## 269 0.19938565 1.000000000 worse 0 0  
## 270 0.13485473 0.225080275 better 0 0  
## 271 0.17148123 0.560779696 worse 0 0  
## 272 0.20273723 0.595349588 worse 0 0  
## 273 0.18339835 0.539440022 worse 0 0  
## 274 0.20908422 1.000000000 worse 0 0  
## 275 0.19388548 0.244748937 worse 0 0  
## 276 0.18480814 1.000000000 worse 0 0  
## 277 0.20323790 0.563013580 worse 0 0  
## 278 0.19943621 0.519165740 worse 0 0  
## 279 0.18457021 0.666249912 worse 0 0  
## 280 0.16905413 0.374687008 better 0 0  
## 281 0.35540261 0.387318905 better 0 0  
## 282 0.31408141 1.000000000 better 0 0  
## 283 0.26495823 0.449639114 worse 0 0  
## 284 0.14348432 0.013422472 better 0 0  
## 285 0.22314312 0.258275233 better 0 1  
## 286 0.21939400 0.471624086 better 0 1  
## 287 0.19252636 0.456904022 better 0 1  
## 288 0.21606220 0.637007830 better 0 1  
## 289 0.21664324 0.614601770 better 0 1  
## 290 0.18347436 0.029337121 better 0 1  
## 291 0.23458943 0.545067868 worse 0 0  
## 292 0.17513440 0.695059572 worse 0 0  
## 293 0.23663606 0.783144098 worse 0 0  
## 294 0.19205384 0.397525158 worse 0 0  
## 295 0.20649065 0.784732101 worse 0 0  
## 296 0.26099147 0.303756902 better 0 0  
## 297 0.19846437 0.719510926 worse 0 0  
## 298 0.16702039 0.252760194 better 0 0  
## 299 0.21290048 0.805283019 worse 0 0  
## 300 0.17175777 0.319656418 worse 0 0  
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## 302 0.22256809 1.000000000 better 1 0  
## 303 0.12382838 0.243219850 better 1 0  
## 304 0.18651282 0.224629963 better 1 0  
## 305 0.21956929 1.000000000 better 1 0  
## 306 0.15777461 1.000000000 better 1 0  
## 307 0.13342599 1.000000000 worse 1 0  
## 308 0.24578380 0.448750000 better 1 0  
## 309 0.18454785 1.000000000 better 1 0  
## 310 0.19303973 0.208017990 better 1 0  
## 311 0.17285540 0.472895674 worse 0 0  
## 312 0.18613635 0.673796791 worse 0 0  
## 313 0.32057133 0.608923697 worse 0 0  
## 314 0.18869030 0.783688512 worse 0 0  
## 315 0.16803516 0.677525873 worse 0 0  
## 316 0.20704581 1.000000000 worse 0 0  
## 317 0.16305560 0.586625921 worse 0 0  
## 318 0.20823666 0.852732502 worse 0 0  
## 319 0.21013263 0.770159720 worse 0 0  
## 320 0.21059085 1.000000000 worse 0 0  
## 321 0.09802984 0.197422402 better 0 0  
## 322 0.23522003 0.509920452 worse 0 0  
## 323 0.15351291 0.532398956 better 0 0  
## 324 0.20504035 0.566476432 worse 0 0  
## 325 0.22232757 0.255613016 worse 0 0  
## 326 0.17874431 0.613795527 worse 0 0  
## 327 0.20499096 0.781742193 worse 0 0  
## 328 0.16375199 1.000000000 worse 0 0  
## 329 0.25233363 1.000000000 worse 0 0  
## 330 0.19176688 0.590342639 worse 0 0  
## 331 0.14717138 0.463209290 worse 0 0  
## 332 0.12188110 0.221815647 worse 0 0  
## 333 0.11768719 0.223340040 worse 0 0  
## 334 0.15584416 0.403349368 worse 0 0  
## 335 0.14602981 1.000000000 worse 0 0  
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## 337 0.14235903 0.378741702 worse 0 0  
## 338 0.18970676 0.581592338 better 0 0  
## 339 0.27823028 0.411022670 worse 0 0  
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## 341 0.13673163 0.463549230 worse 0 0  
## 342 0.26946604 1.000000000 worse 0 0  
## 343 0.16001510 0.351711329 worse 0 0  
## 344 0.14959747 0.600155809 worse 0 0  
## 345 0.26319111 1.000000000 worse 0 0  
## 346 0.14694473 0.160334890 worse 0 0  
## 347 0.14803471 0.246699866 worse 0 0  
## 348 0.09962865 0.025996388 worse 0 0  
## 349 0.13969285 0.345757658 worse 0 0  
## 350 0.12312879 0.181293952 worse 0 0  
## 351 0.27404905 0.741993137 worse 0 0  
## 352 0.15477997 0.565243627 better 0 0  
## 353 0.12858531 0.310995498 better 0 0  
## 354 0.20772947 1.000000000 worse 0 0  
## 355 0.11592299 0.000000000 better 0 0  
## 356 0.24445164 1.000000000 better 0 0  
## 357 0.21825596 0.755076288 worse 0 0  
## 358 0.26387625 1.000000000 worse 0 0  
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## 360 0.14507423 0.013939759 better 0 0  
## 361 0.22128970 0.662848548 better 0 0  
## 362 0.25321596 0.770812064 worse 0 0  
## 363 0.19774428 0.573858804 better 0 0  
## 364 0.16707941 0.832130530 better 0 0  
## 365 0.36731332 1.000000000 better 0 0  
## 366 0.22867671 0.995622777 worse 0 0  
## 367 0.13959156 0.249258412 better 0 0  
## 368 0.14981343 0.534023793 better 0 0  
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## 370 0.18154980 0.265957170 worse 0 0  
## 371 0.13761902 0.032071473 better 0 0  
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## 376 0.15186128 0.316255316 worse 0 0  
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## 379 0.21913381 1.000000000 worse 0 0  
## 380 0.24765547 0.786797353 worse 0 0  
## 381 0.21028913 0.714388415 worse 0 0  
## 382 0.26923077 0.721260860 worse 0 0  
## 383 0.22618208 0.538563589 worse 0 0  
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## 385 0.29065970 1.000000000 better 1 0  
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## 387 0.20302239 0.799214759 better 1 0  
## 388 0.21593730 0.723340138 better 1 0  
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## 393 0.28105286 0.314837905 better 0 0  
## 394 0.24979491 1.000000000 worse 0 0  
## 395 0.15895323 0.430959371 better 0 0  
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head(qol\_test)

## average\_hh\_size pct\_male pct\_native\_american pct\_asian pct\_black pct\_hispanic  
## 1 2.85 53.73 0.05 0.25 22.55 2.68  
## 2 2.70 49.65 0.10 0.41 1.40 9.28  
## 3 2.50 48.04 0.31 0.81 21.16 3.85  
## 4 2.55 48.75 1.14 0.44 9.67 7.75  
## 5 2.59 49.42 1.00 1.61 17.05 7.68  
## 6 2.43 48.61 0.21 0.66 12.69 1.77  
## pct\_other\_race pct\_white pct\_single\_parent pct\_hh\_other\_computer  
## 1 0.04 76.60 32.19 0.23  
## 2 1.80 93.97 25.75 2.16  
## 3 1.64 73.30 34.42 2.43  
## 4 3.56 82.13 34.19 1.40  
## 5 1.29 74.69 32.20 2.24  
## 6 0.36 84.27 29.04 11.13  
## pct\_hh\_internet pct\_employed pct\_hh\_inc\_99999 pct\_w\_medicare  
## 1 76.17 92.56 34.92 7.74  
## 2 80.03 94.80 28.64 8.81  
## 3 79.97 92.71 31.39 5.18  
## 4 74.92 93.90 34.07 5.28  
## 5 83.18 94.50 31.50 4.30  
## 6 75.93 92.30 28.68 7.69  
## clinical\_nurse\_pt dentist\_pt pa\_pt mental\_health\_faciliy\_pt  
## 1 0.00 0.27 0.23 0.0000  
## 2 0.00 0.19 0.00 0.0173  
## 3 0.01 0.68 0.10 0.0353  
## 4 0.00 0.29 0.02 0.0225  
## 5 0.00 0.34 0.04 0.0188  
## 6 0.00 0.38 0.08 0.0812  
## population\_density days\_over\_90\_f median\_hh\_income.x median\_er\_dist  
## 1 35.94 97 50907 8.44  
## 2 89.56 80 55203 10.56  
## 3 188.69 84 50259 3.51  
## 4 63.72 94 52693 7.27  
## 5 76.94 105 54203 2.74  
## 6 36.00 107 43544 1.86  
## median\_trauma\_center\_dist median\_pediatric\_icu\_dist median\_health\_clinic\_dist  
## 1 26.40 21.97 3.85  
## 2 26.16 52.24 3.91  
## 3 24.79 45.01 4.08  
## 4 31.37 28.36 3.51  
## 5 23.44 44.21 4.12  
## 6 12.59 61.42 1.86  
## median\_drug\_alcohol\_care\_dist percent\_grandparents\_as\_guardians  
## 1 26.48 12.543648  
## 2 25.22 6.226566  
## 3 15.30 5.798538  
## 4 30.65 4.091697  
## 5 29.84 4.730133  
## 6 54.17 8.664498  
## pct\_adult\_smokers pct\_obese\_adults pct\_binge\_drinkers  
## 1 0.228 0.384 0.1591628  
## 2 0.218 0.327 0.1631069  
## 3 0.210 0.374 0.1618824  
## 4 0.221 0.375 0.1637214  
## 5 0.196 0.436 0.1525075  
## 6 0.214 0.448 0.1538523  
## pct\_under\_65\_no\_health\_insurance pct\_highschool\_diploma inequality\_ratio  
## 1 0.1300788 0.8053808 5.034985  
## 2 0.1325467 0.8364808 4.803718  
## 3 0.1292500 0.8521486 4.819868  
## 4 0.1526298 0.8176132 4.131532  
## 5 0.1369450 0.8635622 4.790742  
## 6 0.1209324 0.8518224 5.483394  
## social\_clubs\_per\_10k air\_polution\_metric water\_quality pct\_high\_housing\_costs  
## 1 9.035056 9.8 0 0.07985348  
## 2 6.738195 9.6 0 0.07380601  
## 3 13.395729 9.7 0 0.09838489  
## 4 14.865869 9.9 0 0.11185830  
## 5 12.586887 9.1 0 0.07904374  
## 6 11.643650 9.1 0 0.09875173  
## pct\_overcrowded\_hh pct\_30\_min\_plus\_commute life\_expectancy\_years  
## 1 0.01161103 0.551 73.60936  
## 2 0.01798993 0.595 74.17146  
## 3 0.01681426 0.300 72.82501  
## 4 0.02983752 0.508 74.39108  
## 5 0.01756587 0.308 75.26854  
## 6 0.02121212 0.279 72.91764  
## school\_funding\_gap pct\_voters pct\_home\_owner pct\_65\_plus pct\_rural\_population  
## 1 -2659.8410 0.5456355 5580 0.1673711 0.6835261  
## 2 -889.3883 0.6418799 16865 0.1872597 0.8995150  
## 3 -4113.4269 0.5785633 31441 0.1846222 0.3369683  
## 4 -1903.9890 0.5950693 12221 0.1746698 0.8674472  
## 5 -2322.7189 0.5721074 14153 0.1711522 0.4719508  
## 6 -4510.3738 0.6034274 10681 0.2167679 0.6965179  
## response region.Midwest region.Northeast region.South region.West  
## 1 worse 0 0 1 0  
## 2 worse 0 0 1 0  
## 3 worse 0 0 1 0  
## 4 worse 0 0 1 0  
## 5 worse 0 0 1 0  
## 6 worse 0 0 1 0

Encode response variable as 1 and 0. (1 if worse than national median and 0 if better than national median) and convert to factor

#encode response variable in training set  
qol\_train <- qol\_train %>%  
 mutate(response = ifelse(response == "better", 0, 1))  
table(qol\_data$response)

##   
## better worse   
## 1457 1498

# Convert response variable to factor   
qol\_train$response <- as.factor(qol\_train$response)  
  
#encode response variable in testing set  
qol\_test <- qol\_test %>%  
 mutate(response = ifelse(response == "better", 0, 1))  
table(qol\_test$response)

##   
## 0 1   
## 190 205

# Convert response variable to factor   
qol\_test$response <- as.factor(qol\_test$response)

###Handling missing values; identifying and imputing missing characters

# Count missing values in the train set  
total\_missing <- sum(is.na(qol\_train))  
print(paste("Total missing values in dataframe:", total\_missing))

## [1] "Total missing values in dataframe: 0"

# Count missing values in the test set  
total\_missing <- sum(is.na(qol\_train))  
print(paste("Total missing values in dataframe:", total\_missing))

## [1] "Total missing values in dataframe: 0"

To determine if there are unwanted characters and whitespace and make corrections: We print a sample of the data for visual inspection. We use regular expressions to detect unwanted characters in text columns. We check for leading, trailing, or excessive whitespace in text columns.

# Visual inspection  
#print(head(qol\_train))  
  
# Detect unwanted characters using regular expressions  
unwanted\_chars <- function(x) {  
 if (is.character(x)) {  
 return(grepl("[^[:alnum:][:space:]]", x))  
 } else {  
 return(FALSE)  
 }  
}  
  
# Apply the function to each column qol\_train  
unwanted\_chars\_results <- sapply(qol\_train, function(col) sum(unwanted\_chars(col)))  
print("Number of unwanted characters in each column:")

## [1] "Number of unwanted characters in each column:"

#print(unwanted\_chars\_results)  
  
# Apply the function to each column qol\_test  
unwanted\_chars\_results <- sapply(qol\_train, function(col) sum(unwanted\_chars(col)))  
print("Number of unwanted characters in each column:")

## [1] "Number of unwanted characters in each column:"

#print(unwanted\_chars\_results)  
  
  
  
# Detect leading, trailing, or excessive whitespace  
whitespace\_check <- function(x) {  
 if (is.character(x)) {  
 return(grepl("^\\s+|\\s+$|\\s{2,}", x))  
 } else {  
 return(FALSE)  
 }  
}  
  
# Apply the function to each column of training and test sets  
whitespace\_results <- sapply(qol\_train, function(col) sum(whitespace\_check(col)))  
print("Number of whitespace issues in each column:")

## [1] "Number of whitespace issues in each column:"

#print(whitespace\_results)  
  
  
whitespace\_results <- sapply(qol\_test, function(col) sum(whitespace\_check(col)))  
print("Number of whitespace issues in each column:")

## [1] "Number of whitespace issues in each column:"

#print(whitespace\_results)

###Perform arithmetic transformations for skewed features

###normalize and or scale features

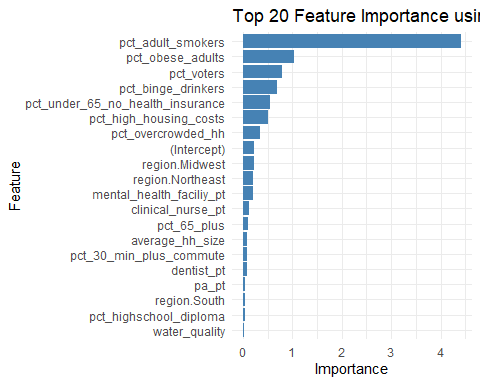
build initial model (OLS)

# Convert response variable to numeric  
qol\_train$response <- as.numeric(as.character(qol\_train$response))  
# Fit the OLS model  
ols\_model <- lm(response ~ ., data = qol\_train)  
# Predict on the test set  
predictions <- predict(ols\_model, newdata = qol\_test)  
  
# Convert predictions to binary outcomes  
predicted\_classes <- ifelse(predictions > 0.5, 1, 0)  
  
# Evaluate the model  
confusion\_matrix <- table(qol\_test$response, predicted\_classes)  
accuracy\_ols <- sum(diag(confusion\_matrix)) / sum(confusion\_matrix)  
# Extract coefficients  
coefficients <- summary(ols\_model)$coefficients  
  
# Calculate importance (absolute value of coefficients)  
feature\_importance <- abs(coefficients[, "Estimate"])  
  
# Create a data frame for better visualization  
importance\_df <- data.frame(Feature = rownames(coefficients), Importance = feature\_importance)  
  
# Sort by importance  
importance\_df <- importance\_df[order(-importance\_df$Importance), ]  
  
print(importance\_df)

## Feature  
## pct\_adult\_smokers pct\_adult\_smokers  
## pct\_obese\_adults pct\_obese\_adults  
## pct\_voters pct\_voters  
## pct\_binge\_drinkers pct\_binge\_drinkers  
## pct\_under\_65\_no\_health\_insurance pct\_under\_65\_no\_health\_insurance  
## pct\_high\_housing\_costs pct\_high\_housing\_costs  
## pct\_overcrowded\_hh pct\_overcrowded\_hh  
## (Intercept) (Intercept)  
## region.Midwest region.Midwest  
## region.Northeast region.Northeast  
## mental\_health\_faciliy\_pt mental\_health\_faciliy\_pt  
## clinical\_nurse\_pt clinical\_nurse\_pt  
## pct\_65\_plus pct\_65\_plus  
## average\_hh\_size average\_hh\_size  
## pct\_30\_min\_plus\_commute pct\_30\_min\_plus\_commute  
## dentist\_pt dentist\_pt  
## pa\_pt pa\_pt  
## region.South region.South  
## pct\_highschool\_diploma pct\_highschool\_diploma  
## water\_quality water\_quality  
## pct\_rural\_population pct\_rural\_population  
## air\_polution\_metric air\_polution\_metric  
## life\_expectancy\_years life\_expectancy\_years  
## pct\_other\_race pct\_other\_race  
## pct\_male pct\_male  
## inequality\_ratio inequality\_ratio  
## pct\_w\_medicare pct\_w\_medicare  
## percent\_grandparents\_as\_guardians percent\_grandparents\_as\_guardians  
## pct\_hispanic pct\_hispanic  
## pct\_asian pct\_asian  
## pct\_white pct\_white  
## median\_health\_clinic\_dist median\_health\_clinic\_dist  
## pct\_black pct\_black  
## pct\_hh\_inc\_99999 pct\_hh\_inc\_99999  
## median\_trauma\_center\_dist median\_trauma\_center\_dist  
## pct\_hh\_other\_computer pct\_hh\_other\_computer  
## pct\_employed pct\_employed  
## median\_drug\_alcohol\_care\_dist median\_drug\_alcohol\_care\_dist  
## pct\_native\_american pct\_native\_american  
## days\_over\_90\_f days\_over\_90\_f  
## median\_er\_dist median\_er\_dist  
## social\_clubs\_per\_10k social\_clubs\_per\_10k  
## pct\_hh\_internet pct\_hh\_internet  
## median\_pediatric\_icu\_dist median\_pediatric\_icu\_dist  
## pct\_single\_parent pct\_single\_parent  
## school\_funding\_gap school\_funding\_gap  
## population\_density population\_density  
## median\_hh\_income.x median\_hh\_income.x  
## pct\_home\_owner pct\_home\_owner  
## Importance  
## pct\_adult\_smokers 4.419635e+00  
## pct\_obese\_adults 1.042323e+00  
## pct\_voters 7.843855e-01  
## pct\_binge\_drinkers 6.921935e-01  
## pct\_under\_65\_no\_health\_insurance 5.558377e-01  
## pct\_high\_housing\_costs 5.008374e-01  
## pct\_overcrowded\_hh 3.414620e-01  
## (Intercept) 2.330452e-01  
## region.Midwest 2.206017e-01  
## region.Northeast 2.112339e-01  
## mental\_health\_faciliy\_pt 2.006418e-01  
## clinical\_nurse\_pt 1.270115e-01  
## pct\_65\_plus 1.040865e-01  
## average\_hh\_size 8.918793e-02  
## pct\_30\_min\_plus\_commute 8.413684e-02  
## dentist\_pt 8.411841e-02  
## pa\_pt 4.998498e-02  
## region.South 4.815489e-02  
## pct\_highschool\_diploma 3.283580e-02  
## water\_quality 2.209179e-02  
## pct\_rural\_population 2.058103e-02  
## air\_polution\_metric 1.347829e-02  
## life\_expectancy\_years 1.280991e-02  
## pct\_other\_race 9.232238e-03  
## pct\_male 7.120508e-03  
## inequality\_ratio 7.083196e-03  
## pct\_w\_medicare 4.199708e-03  
## percent\_grandparents\_as\_guardians 4.050521e-03  
## pct\_hispanic 4.010871e-03  
## pct\_asian 3.793862e-03  
## pct\_white 3.164710e-03  
## median\_health\_clinic\_dist 2.902062e-03  
## pct\_black 2.894835e-03  
## pct\_hh\_inc\_99999 2.441781e-03  
## median\_trauma\_center\_dist 2.094686e-03  
## pct\_hh\_other\_computer 1.764055e-03  
## pct\_employed 1.402222e-03  
## median\_drug\_alcohol\_care\_dist 1.358378e-03  
## pct\_native\_american 9.875045e-04  
## days\_over\_90\_f 8.881244e-04  
## median\_er\_dist 6.795284e-04  
## social\_clubs\_per\_10k 5.036731e-04  
## pct\_hh\_internet 2.726462e-04  
## median\_pediatric\_icu\_dist 8.918801e-05  
## pct\_single\_parent 2.750286e-05  
## school\_funding\_gap 3.178652e-06  
## population\_density 2.068343e-06  
## median\_hh\_income.x 2.693781e-07  
## pct\_home\_owner 1.394999e-07

visualize feature importance

# Select the top 20 important features  
top\_20\_features\_ols <- importance\_df %>%  
 arrange(desc(Importance)) %>%  
 head(20)  
  
# Create the bar plot for the top 20 features  
ggplot(top\_20\_features\_ols, aes(x = reorder(Feature, Importance), y = Importance)) +  
 geom\_bar(stat = "identity", fill = "steelblue") +  
 coord\_flip() + # Flip coordinates for better readability  
 labs(title = "Top 20 Feature Importance using ols", x = "Feature", y = "Importance") +  
 theme\_minimal()



Build ROC curve

# Load necessary libraries  
library(ggplot2)  
library(pROC)

## Type 'citation("pROC")' for a citation.

##   
## Attaching package: 'pROC'

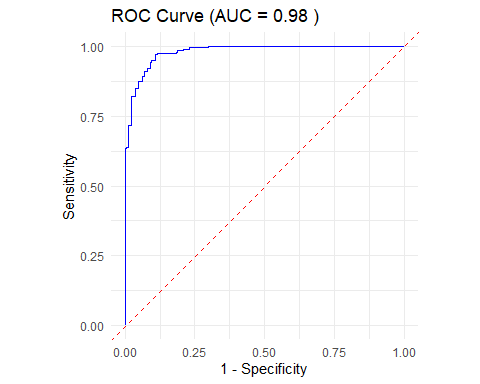
## The following objects are masked from 'package:stats':  
##   
## cov, smooth, var

# Calculate ROC curve  
roc\_ols <- roc(qol\_test$response, predictions)

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

# Create a data frame for ggplot  
roc\_data <- data.frame(  
 specificity = rev(roc\_ols$specificities),  
 sensitivity = rev(roc\_ols$sensitivities)  
)  
  
# Plot ROC curve using ggplot2  
ggplot(roc\_data, aes(x = 1-specificity, y = sensitivity)) +  
 geom\_line(color = "blue") +  
 geom\_abline(linetype = "dashed", color = "red") +  
 labs(title = paste("ROC Curve (AUC =", round(auc(roc\_ols), 2), ")"),  
 x = "1 - Specificity",  
 y = "Sensitivity") +  
 theme\_minimal() +  
 coord\_fixed(ratio = 1)



### Build random forest model

# Train a random forest model for classification  
model\_rf <- randomForest(as.factor(response) ~ ., data = qol\_train, ntree = 500)  
  
# Predict the response variable for the testing set  
predictions2 <- predict(model\_rf, qol\_test, type = "response")  
  
# Calculate the accuracy of the random forest model  
accuracy <- mean(qol\_test$response == predictions2)  
print(accuracy)

## [1] 0.9240506

# Calculate the ROC AUC score  
roc\_obj <- roc(qol\_test$response, as.numeric(predictions2))

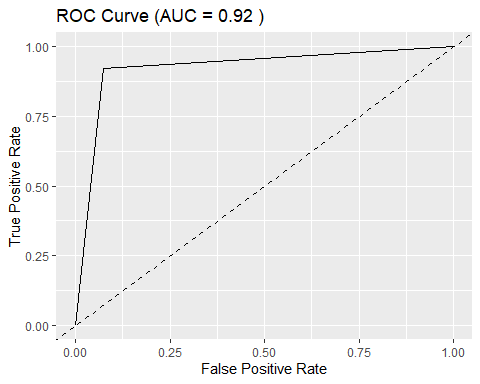
## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

auc\_rf <- auc(roc\_obj)  
print(auc\_rf)

## Area under the curve: 0.9241

# Plot the ROC curve using ggplot2  
roc\_df <- data.frame(  
 tpr = roc\_obj$sensitivities,  
 fpr = 1 - roc\_obj$specificities  
)  
  
ggplot(roc\_df, aes(x = fpr, y = tpr)) +  
 geom\_line() +  
 geom\_abline(linetype = "dashed") +  
 xlab("False Positive Rate") +  
 ylab("True Positive Rate") +  
 ggtitle(paste("ROC Curve (AUC =", round(auc\_rf, 2), ")"))



# Calculate feature importance  
importance\_rf <- importance(model\_rf)  
importance\_df <- data.frame(Feature = rownames(importance\_rf), Importance = importance\_rf[, 1])  
  
# Select top 20 important features  
top\_20\_importance <- importance\_df[order(-importance\_df$Importance), ][1:20, ]  
  
# Plot top 20 feature importance using ggplot2  
ggplot(top\_20\_importance, aes(x = reorder(Feature, Importance), y = Importance)) +  
 geom\_bar(stat = "identity") +  
 coord\_flip() +  
 xlab("Feature") +  
 ylab("Importance") +  
 ggtitle("Top 20 Feature Importance from Random Forest Model")

