#installing all required packages

install.packages**(**"tidyverse"**)**

install.packages**(**"lubridate"**)**

install.packages**(**"janitor"**)**

install.packages**(**"ggplot2"**)**

install.packages**(**"dplyr"**)**

#loading packages

library**(**tidyverse**)**

library**(**lubridate**)**

library**(**ggplot2**)**

library**(**janitor**)**

library**(**dplyr**)**

The downloaded binary packages are in

C:\Users\RedDevil\AppData\Local\Temp\RtmpqkoDsx\downloaded\_packages

> library(tidyverse)

── Attaching core tidyverse packages ─────────────────────── tidyverse 2.0.0 ──

✔ dplyr 1.1.3 ✔ readr 2.1.4

✔ forcats 1.0.0 ✔ stringr 1.5.0

✔ ggplot2 3.4.3 ✔ tibble 3.2.1

✔ lubridate 1.9.2 ✔ tidyr 1.3.0

✔ purrr 1.0.2

── Conflicts ───────────────────────────────────────── tidyverse\_conflicts() ──

✖ dplyr::filter() masks stats::filter()

✖ dplyr::lag() masks stats::lag()

ℹ Use the conflicted package to force all conflicts to become errors

> library(lubridate)

> library(ggplot2)

> library(janitor)

Attaching package: ‘janitor’

The following objects are masked from ‘package:stats’:

chisq.test, fisher.test

> library(dplyr)

> source("C:/Users/RedDevil/Desktop/GoogleITsupportclass/DataAnalytics/case\_study/bikeridesdata/Console output 1.R")

Error in install.packages : Updating loaded packages

## Error in install.packages : Updating loaded packages

Error in install.packages : Updating loaded packages

Error in install.packages : Updating loaded packages

Error in install.packages : Updating loaded packages

#Importing divvy datasets csv.files

Jan22 **<-** read.csv**(**"202201-divvy-tripdata.csv"**)**

Feb22 **<-** read.csv**(**"202202-divvy-tripdata.csv"**)**

Mar22 **<-** read.csv**(**"202203-divvy-tripdata.csv"**)**

Apr22 **<-** read.csv**(**"202204-divvy-tripdata.csv"**)**

May22 **<-** read.csv**(**"202205-divvy-tripdata.csv"**)**

Jun22 **<-** read.csv**(**"202206-divvy-tripdata.csv"**)**

Jul22 **<-** read.csv**(**"202207-divvy-tripdata.csv"**)**

Aug22 **<-** read.csv**(**"202208-divvy-tripdata.csv"**)**

Sep22 **<-** read.csv**(**"202209-divvy-tripdata.csv"**)**

Oct22 **<-** read.csv**(**"202210-divvy-tripdata.csv"**)**

Nov22 **<-** read.csv**(**"202211-divvy-tripdata.csv"**)**

Dec22 **<-** read.csv**(**"202212-divvy-tripdata.csv"**)**

> Jan22 <- read.csv("202201-divvy-tripdata.csv")

> Feb22 <- read.csv("202202-divvy-tripdata.csv")

> Mar22 <- read.csv("202203-divvy-tripdata.csv")

> Apr22 <- read.csv("202204-divvy-tripdata.csv")

> May22 <- read.csv("202205-divvy-tripdata.csv")

> Jun22 <- read.csv("202206-divvy-tripdata.csv")

> Jul22 <- read.csv("202207-divvy-tripdata.csv")

> Aug22 <- read.csv("202208-divvy-tripdata.csv")

> Sep22 <- read.csv("202209-divvy-tripdata.csv")

> Oct22 <- read.csv("202210-divvy-tripdata.csv")

> Nov22 <- read.csv("202211-divvy-tripdata.csv")

> Dec22 <- read.csv("202212-divvy-tripdata.csv")

#combining all data into one file

all\_rides **<-** rbind**(**Jan22,Feb22,Mar22,Apr22,May22,Jun22,Jul22,Aug22,Sep22,Oct22,Nov22,Dec22**)**

#checking the structure of the new file

str**(**all\_rides**)**

colnames**(**all\_rides**)**

nrow**(**all\_rides**)**

head**(**all\_rides**)**

summary**(**all\_rides**)**

![A close-up of a message

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJlZERldmlsAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMDAAAJKSAAIAAAADMDAAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD6G03/AI9m/wB8/wAhVusSW81Gx0zz9M0wakVl/ewLcCKTZjkx7htZvZmQf7VWNI8Q6drXmJaSslzCP31pcRmKeHt80bYIHoeh7EigNjTooooAKKw7/wAY6Lp+qSadJNc3F5EFM0NjYz3Rg3cr5nlI3l5HI3Y456VPZ+JdK1HRp9V064kvLSB3jdraCSViyHDBUVSzEHjgGjzHZmrRXC+GfiZa6tp80uoWWqrKt7cQJ9m0G+ZNiSsqZIiYBtoG4EjByCB0rrdV1a20awa8vVuWhUgH7NaS3Dj32RqzY98YFD0V2LrYu0VzX/CwvDJt7e4j1B5be4jjlE8VpM8cSyAFDK4QiHIYH94V610tGwBRXL+CNdu/FEGo620oOlT3bQ6ZEEA/cxEoZSepLuGPPQBcDrm1feNdD0+/nspLi4uLm3x9ojsbGe6MGRkeZ5SNs45+bHFAG9RVewv7TVNPhvdOuY7m1nTfFNEwZXHqDXLaXJq2nfEltHu9evdVs5NJa7C3kVupSQTBeDFEnGD0OaPtcv8AW1/0B7X/AK1djsaKrahay3ljJBb31xYSPjbc2yxmROc8CRWXnpyp61geBb3ULq21mDVdQm1F7HVprWKeeONHMahCARGqrnk84FC1dvn+X+YPRJ/L+vuOoooooAKKwLjxtoNnq0+m311NaXMETSkXNnNEjqrKpKOyBZPmdRhCSSwAq5o/iHTtd+0DT5J/MtmCzQ3NrLbyR5GVJSRVbBHQ4we1HS4bGnRXLaR4jh1fxpcQW+p3qxixV10q80ea1KkSENMJJUUsDlV2jgYzW/qOpWek2TXepXCW8CkKXc9STgKB1JJIAA5J4FHS4dbFqivP/EHjWKe/0QaJq2oafcPqdtDNp93pxtjdQySqrnbcRByADjchGCee1dXrHiTTNClhhv5ZjcThmit7W2luZnUYywjiVmwMjJxgZFHS/wAgNWis7Sde07W1k/s+djJDjzYJoXhmiznG+KQB1zg4yBnHFVL/AMY6Lp+qSadJNc3F5EFM0NjYz3Rg3cr5nlI3l5HI3Y456UAtdjcoqho+t6dr9k13pF0t1brK8JkUEDehww5HYjFYvg/XL661LXdB1yUTajo93gTBAnn28o3wvgcZxlTgdUNAHU0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBiS6r/ZOmeYtje380kuyK3s4S7O2O7HCoP9p2Vfesyfwve+KL6y1DxSYrH7HJ5ltaae581Dn+O5wH5wMrHsHUEuK6PTf+PZv98/yFW6Ae1gooooA83fXPC39u6tPD4uu/CM/wBuaK9jme2iiu5owE3qbiNwflQD5CDxyAa6bwVeyX+kXMzW8SQ/bJfIuoofKF8mQfP2+rEnno2Nw4YV0VFCsvu/yB6nnfhTxVoXhix1PS/EGq22n6jFq17J9iuH2zOkk7ujJH96QMrAgqDmup1rxFpFj4ZN/qeoQabbXURETag32YszKSF2ybSGx/CRn2rboqZLmjy/IpStPm87/qef/CfxF4XbwF4b0bS9Y0g6h/Z0Rksbe6i83zPLBkzGpzuzknjPXNd5cxtNayxIdrOhUH0JFSUVdR+0bv1Ih7lrdDiPg64/4VTo9q4KXFij2dzG33o5Y5GVgR2ORn8axx4rF3c3ra946l8O3sV1LDFodlBbm4CK5VD5csUkkrOoDAoMHdwDjNd7puhWulanqd5ZtKv9pSrPNCWHliQLtLqMZBYBc84O0Hg5zpUm3J8zGkkrL+kcL8L9Z05vh4XfUIgbG4u2vfPdEe2/0iVv3yjiM7eSDgD6Vmt488If8LaS8/4SrRPsv9htF5/9ow7N/nqdu7djOOcV6ZRR9pS/rZr9QesWv63T/QzbzxHomn6VBqd/rOn2un3G3ybue6RIpdwyu1ycHIGRg8iuK8BeM/C5vtetx4k0gz3mvTG2i+3xbpwwQKUG7LZPAx1r0eihaSv8vxT/AEB6pL5/mv1CiufuPEeqQ3MsUfgvXLhEcqs0U1iFkAP3huuQcHryAfYUW/iPVJ7qKKXwXrlujuFaaWaxKxgn7x23JbA68An0BoWobHJaz4r8IL8ZtJmv9e0QfYNMvY2ea8h/0acywDaST8j4DjHBwG969Bg1jTLnSP7VttRtJtO2NJ9sjnVodi53NvB24GDk54wauUUfZS/rdv8AUPtX/rax5m3jzwh/wtpLz/hKtE+y/wBhtF5/9ow7N/nqdu7djOOcVv8AiS4ibUPDXiGOQXei2s0kssluPNVRJEVjuPlzlRkjcM4Em7oCR1tFC0il2/zb/UOrff8AySPLvHvjTwtqMfh97LU7HUI7TXbOea9t5lkgslEmC0koOxCQcYJyQScYBIs6zGdP8e3us33ii80LStSsrcW2oWyWzQfJvykkk0ThPvBlOVDbm7ivSKKWy+d/wt+g27/d+tzh/DMWj33itNVsfGV94muY7OS3EirbPbrGXViGkt4VXdlRgM2fvYHWs99c8Lf27q08Pi678Iz/AG5or2OZ7aKK7mjATepuI3B+VAPkIPHIBr0iiq0/r1uI53wVeyX+kXMzW8SQ/bJfIuoofKF8mQfP2+rEnno2Nw4YVi6Cv2z42+K723/1FpYWdjKw6NN88hH1Cuufr+XeVl+H/D9p4csJbazeaZri4kup552DSTSu2WZiAB6AYAwAB2pLdPsv0t+VwezXf/O/+RqUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBU03/j2b/fP8hWH4J8e6d47h1KTS7O+thp101pMLyNFJkHXbtZuB74rc03/j2b/fP8hWN4N8HQ+D49ZWC4+0HVNUn1Fj5ezZ5mMJ1OcY68Z9BQt9e343X6XB7f15/8A6SseLxEj+L5PD0theQzC1N3Fcv5ZhmQMqnbtcsCC4HzKOhrLmSTxP4w1TS7u7vbXT9LigHk2dy9s1xJIC28yRkPtAAUAMATvznjGZpmlyaR8ZIrcajc3lqdBmaCO7lMskH+kRAr5jfMy8AjcSc55IwAL4kn5/k3+g3s36fmjv6K87vp4td1e+nsLXxlrcEcrQiTTNRSytoHQ7WWP99CZMMDkneMgjPGK2vBk1z4h+HsA1qe6eaRp7eWXzTBORHM8YJaIja+FGSpHOcUdLi62N/TdUs9XtpJ9Om86KOaSBm2lcPG5RxyB0ZSM9PSrdeafD7wdplzoV3LJda0GTV75AI9dvUXC3MgGVWUAnjknknk5JrrPGGoW9lo8dvJd6lBPezCC2TS1VrmZ8FiibgQPlVsscYAJyOtHRfIOrXa/wCBv0V5vps9/pfjbQ4INP8AEumWuoSTQ3Mes6jHeRzbYXkUr+/lZGBTttBBPB4x6RQAVk674hg0M2kRtbq+vL2Qx2tnaKpklIUs3LMqqABklmA9+RWtXA+J/DFhe/EXw/JNcaqrXX2oyCHV7qILtjXGwJIAnvtxnvmkwOu0nUbrUYna80a+0oqQAl48DF/p5Ujj8yOtaFULDR7bTdNext5b14n3Za4vpp5BkYOJJHLj2weO1cP4X0KfUdX8Uafda5rDaTYar5VvbDUZ/NGbeFjm4Mhl25YkKGAyTnOQA9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RQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBU03/j2b/fP8hVuqmm/8ezf75/kKt0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFTTf+PZv98/yFW6qab/x7N/vn+Qq3QAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAVNN/49m/3z/IVbqppv8Ax7N/vn+Qq3QAUUUUAc2/iPVNRvLuHwrpNrfxWUxt57m9vmto2lX7yR7YpCxU8EkAZyASQcGn+KbkWmtXPijSH0KDSSC80svmxzIIw7SIwUZUZI4545APApadDrHg97+0g0O51uxub2a7tpLCaBZIvNcuySLNIg4ZjgqWyOoGObN3per+LfDOsadr8UGlQ38JitY4W86aAEH55G+6TnB2rwMfebPC6X8vxHpzWe1/wJf7Z8TMou4/DVv9hK7zG+pEXm308ryjHu9vN/EVor/ZPizw9G81vb6lpl9GsgiuYQ6SLww3Iw6ggcEcEVmDW/EqRrayeFJnvdu03cd3ALLd/eyX80L3x5RPbnrUtjbXHhDwjYWNpp95rcsCiORbMwozMcsz/vZEULuzxuJ5HXk03YlXMz4bWVrp1v4jtNPtobW2h164WOGCMIiDanAUcAVY13xZquleL7LQrHQE1E6hbSS20y3vl7WjKBvNBTCJ84+YFj2Ck4rO8I3Ou6ZeapHfeDtXhTUtXkukm+0WTLFG4UAvi4LcYJIUN7Zq3qkerN8U9IvYNBvZ9PtbOe2lvUltwgaVoiG2tKHIXy2z8uemAaI/Yv2X/pP+Y1ZOXq/zNPRPEF5eaxd6PremJp+o20SXAFvcm4hlicsoZXKIcgqQQVGOMZBovtT8Si/nh0jw5bzQQ4xcX2pCATcZPlqkch9vn2c+3NU4V1P/AIWlcXTaJeJpz6clqt+ZYPLLq7vnaJPMx8wX7nXPGOa5oeGJRc3o8Q+AIvFOqTXUrx6pey20luY2cmMZlYyRKqEKVSNsbeN2c0ui/rr/AJDe7+X5f5nQan46ltvhvL4t0/STOLdXaeyuZ/JkTY5SRQVVwzBlIA4B9RVceM/EravFpA8HxpqFzbfbIFk1QCJIQcN5ziMlJASo2qrgluGwCRhjRfEUXwV1Hw1/wjM41IvPDHFbz24hcSTPIHQtKMRgEDDYb/ZrqQmpy+PdM1Y6Ldx2s2lyW8xaWDNo5kVwJAJDnhSMpv5x9ae8rdP+A/1sJu0fP/gr/ghD44ju/DGk6jY6dNNfas3lW2n7wD5q58wM/QKmxiW9BwCSAZV8Ratps9sPFOj2tlb3U6W8dzYXzXSJI5wok3RRlQWwoIDDJGcda5Oz8C3eoeDNHg1jQLeW90K+uJBYan5MsF7HIXzgqXA4cFSwBDJyADmtLT/DmkG/ga0+E2n6ZNFKji6u4LGNY8HlkaFpH3DqPlHOOR1BHV6g9jf1/wASXOm6xp2jaVpyX2o6gkssYuLn7PCiR7dxZ9rHPzrhVVj1JwBmpNJ1fWLnWptO1jQvsPlWyTC7huTPBIzMwKKxRTkAAnIB56Y5qh4nTUbzVRZXXhK08ReHvswkkSQwtL9o3EYVJWCMNuOpXGep6Uzwtpd1ba5Lc2mit4b0YWohXSmaL55d2fNCQs0cYC/LwctnkDaMkel/P9f6/wCAOW2n9bFn4h+IZ/DHgTUdRsQGvdqwWoY4HnSOI0P4FgfwrS0DR4vDvhuz0u2LTC1hClyfmmfqzkk/eZiScnqaxfifo13rfw91CHTE8y9tzHeW8fPzvDIsgXjuduB7mrt7dXHir4ezXPhS8FvcalYF7K4LbdjOnynIztIz15wfpS+y/wCvT9Q6r+vX9PxKF94s8QaTp0mr6t4XjttKh+acDUlku4kzgsYlTyzgckCUnGcZ6V02oadZatYyWWqWdve2kuPMguYlkjfByMqwIPIB/CvKNe8GnUfC93Z6D8Lbay1Nrcg3+oS2jSlsc+XKru7ueQDIUHcntXplxq17DpEN5H4f1K4nkIDWMUlsJouvLFphH2/hc9R74elhK5gfDaytdOt/Edpp9tDa20OvXCxwwRhEQbU4CjgCtDxzoOkaz4Wv5NX0qyv5LWzne3e6t0lMLbDypYHaeB09BWN4Rudd0y81SO+8HavCmpavJdJN9osmWKNwoBfFwW4wSQob2zWz4uvdS/su803TfDmo6mbqzkRZ7aW2WNGZSoDebMjeh4BGD+FZ1E3SS68q++xVOyqN9Lv7rlrwf/yI2hf9g63/APRa1s1zPgy71OPRtP0rU/Dmo6Y1nYxxPcXEts8buiqpC+XM7c8kZUDA7dK6auio7zbRjTTUEn2GymQQuYVV5Ap2K7bQT2BODge+D9K4zS/Gev6td6pptv4Zt/7T0y7+zzE6g4swPLRwfOMIYsd+NqxnGMkgEZ7C5leC1llit5Ll0QssMRUPIQPujcQuT7kD3rhPDl5r+lat4guLrwTrRj1TUhdQ7LixOxPIij+b/SeuYyeM8Y+lZx1k79vxuv8Agmj2+f6M61LvWJvD63MelQQ6oyjNjdXm2NWzggyoj8YyQQvPGQOcY/w/lifT9Wij0mHSpoNWuEuYoLx7lHmJDPIHdVOCW6YAFb2q39xp9qstppV5qrlwpgs3hVwMH5syyIuOPXPPSuQ8I3Ou6ZeapHfeDtXhTUtXkukm+0WTLFG4UAvi4LcYJIUN7Zoj8T9P1QpfCvX9Gb+pa9eLqz6T4f06PUL6KJZpzcXJt4IFYkKGcI7bm2sQAp4HJGRnltGdn+Nrte6FFpOptocjXTwlZEuv30QVxKFUuAAR8yqwx0xjO9c2mo6D4nv9Y0zTJdWttTji+0W9vLGk8csYKhl8xlRlKkAgsCCuRnPGZaDxNP8AE611u+8OzW+mSabJZIq3MDyWzGVH3zfPjkKRiPzMYHPPBH4k/X8mU/hfy/NGnH4k1vVpJpfDOh2d1p8Mrwi6vtRa2M7IdrGNFhkyoYFcsVyRxxgnU0bXYdXtLl/ImtrizmaC6tpQC8UigNj5chgVZWBHUMO/FcLB4D0vw+09tdfDqw8TQvcSSwXsFtZtPtdy+yXz2TJXO0MC2QBnBrqdJ0+TRvDWo/2B4X07RLhleS1sbcRqJZNnymUIFUMWAHDEYA+b0X2W/L8Qt73zM6z8aeINT8NnxDpfhaG60yS3a4toV1L/AEyZcZUeUIygJ9PMJHpniui1TTIfE/hWfT9RjeGO/ttkigkPEWHUHjDKeQfUVxk+lT3cLzT/AA0hg8R3MPz6raS2iJHMR9/zw4nGDzkIT6ZrtDdjw/4VF3r96Jf7Psw95dlQoconzvjtkgnHvTkkk7/1uCu2rf1sZPw41268QeBbK41M7tQt2ks7xsfemhcxs34lc/jXU1x3ws0u503wDbS6hEYbzUpptRmiI5jaeQyBT7gMAfeuxqpXvrv19ev4kq3Tbp6dPwCiiipGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAVNN/49m/3z/IVbqppv8Ax7N/vn+Qq3QAUVT1i8k0/Qr+9hCtJbW0kqBxkEqpIz7cVneELnWtQ8P2uoa7d2E7XtvFPGllZvAIgyBip3Svu69fl6dKFrfy/W/+QPS3n+n/AA5u0VzPiPW9a0e5sJI4bBLO41S3szuLyySJK4Un+ERsCf8AbHFdNQtVf+un+YbOwUVy2n6rrkXxBl0PVrnT7m1fT2vYXtrN4HTEoQKxaVw3B6gLz2rqaFqk/wCuwdWv67hRRXDfETxdrnhjVfCtroVtZzJrOqJY3DXMbNsVscrtZcHG4856UdUu/wCodLnc0Vw/gjxbrniDxp4w0vVYLOOy0S8S3tHgjdXkDbm+csxBIXb0A610sfiXQptRudPi1rT3vbNGe5tlukMkCrjJdc5UDIyT60dE+6uHVr5GnRVLS9a0vXLZrjRdSs9RgRtjS2k6yqrehKkjPtWTo/ii113xPc2+j65oGpadFaqwjsrsS3SS7iGLhSQExtx3zmjrYOlzo6KZNNFbwvNcSJFFGpZ3dgqqB1JJ6CuO1bxxDK2l3PhLW9F1O0k1K3sr2OJhcMBLIqgq6SAIQCTyrZ46UdUv61Dpc7SiqOq63pWh2y3Gt6nZ6dAzbRLd3CxKT6ZYgZqTTtTsNXslvNJvba+tnJCz20qyI2PRlJFAFqora1t7K3EFnBFbwgswjiQKoJJJOB6kkn3JqWigAornNH8UWuu+J7m30fXNA1LTorVWEdldiW6SXcQxcKSAmNuO+c10E00VvC81xIkUUalnd2CqoHUknoKOlw62H0VxereOIZW0u58Ja3oup2kmpW9lexxMLhgJZFUFXSQBCASeVbPHSoviJ4u1zwxqvhW10K2s5k1nVEsbhrmNm2K2OV2suDjcec9KFr99vy/zQPT7r/n/AJHaXKzvayrZyRxXBQiOSWMyIrY4JUMpI9sj6isD7D43/wChh8P/APghn/8AkysvwR4t1zxB408YaXqsFnHZaJeJb2jwRuryBtzfOWYgkLt6Ada7ijon3Dq12MjSrbxHDdM2t6rpd5b7CFjs9Mkt3DZHJZp5ARjPGPx9deiigAooooAKKKKACiiigAqG7s7bULV7a/tobm3fG+KaMOrYORkHg8gH8KmooAKKKKACiiigAooooAKKKKACiiigAorzjUfHHiSD4n694ds7SwNjp+gtqVvLJC5kaTACqxDgFd2eAAcDr3rb+HPii/8AE/w107xH4iW0tJ7qN5pBAGSJEDsAfmYkfKASSaFqr/1u1+jB6O39bJ/qjrKKxk8Y+GZNJfVI/EWktp8cnlPdrfRGJXxnaX3YBwRxnNXJ9a0u10j+1rnUrOHTtqv9sknVYdrEAHeTtwcjBz3oAu0Vi+FtYfW9Nnu21HSNRj+1ypDNpE/mxeUD8gZsn95tI3AcZ6Ve1PWNN0S0+1azqNpp9vuC+ddzrEmT0G5iBmgC5RXKad4muL/x2ljaX+m6hot3pr3trNaISylJI0IMgkZXB3k8KuOOtaup+K/Dui3S2us69pmn3DjKw3d5HE7D1AYg0dE+4GtRSI6yIrxsGVhlWU5BHrWWninw/Jqw0qPXdMfUScCzW8jMxPpszn9KOtgNWiuc8T6vqmj6poRspLM2d9qCWdxFNbs0nzBjuRw4C429CrZz2q/p3ijQNYvZLPSdc02+uogTJBa3ccjpg4OVUkjmhaq4PR2NSisPxVNrdpo899oN7p9ubSCWaVL2ye483auQFKyx7eh5O7r7c3dBv5dU8N6bqFwqLLd2kU7qgIUMyBiBnPGTQtb+X63/AMgelvP9P+HL9FZOp+K/Dui3S2us69pmn3DjKw3d5HE7D1AYg1qo6yIrxsGVhlWU5BHrQAtFFYXjHxbp/gzw3darqNxbI8UTvb289ysJuXVSRGpPVjjsCfak3YaTbsjdorC0jxv4Y1yeG20vxFpN3eTJuW1t7+KSTpkjapycc9u1XJvEOi2+sx6RPq9hFqcoBjsnuUEzg5xhCdx6Ht2qrNOxKaauaNFZl34k0Ow1RNNvta0+2v5F3pazXSJKy88hCckcHt2NVZPHHhOKxivZfE+jJaTMyRTtqEQjkZeoVt2CR3ApDN2io7e4hu7eO4tZo54ZVDRyRsGVwehBHBFZkPi7w3c6t/Zdv4g0uXUNxT7JHextLuHUbAc5/CjrYPM16K53x9rt94Z8A6xrekxQzXdjbmaNJ1LIcEZyAQeme9clpnj7xTdeM/BGk3Vppq22vaOdQvmWGQPE4QsQh3kAcoMEE8nnpQtXb+ur/Rg9Ff8Arp/mj0+iiigAooooAKKKKACiiigAooooAKKK8Ql+LfjZPhzqevLp2kfbbXxD/ZMURt5djIPlJIEmd28gZzjrxQtXb+t0v1Dpf+tm/wBD2+io2lWC2Mt1IiLGm6RydqqAOTz0FZlh4t8Oaq4TS9f0u9YuIwttexyEuQSF+UnnAPHtR1sHS5r0Vy3if4g6F4W1nTNN1HUdPimvLjy5lnvkia2j8t2ErKedpKBecDLde1bGkeItE19ZToOsWGpiEgSmyukm2Z6Z2k4zg9fSha6g9NzRorL1TxPoOiTJDrWt6dp8sn3Eu7uOJm+gYjNaDXEKWxuHljWBU3mUsAoXGd2emMc5ov1DyJKKxk8Y+GZNJfVI/EWktp8cnlPdrfRGJXxnaX3YBwRxnNVvFPjbSPDHhGbXZr6ykj+ztLaI92kYvGClgkbc7iccYB+lD03Gk27I6KisLSPG/hjXJ4bbS/EWk3d5Mm5bW3v4pJOmSNqnJxz27Vf1XW9K0O2W41vU7PToGbaJbu4WJSfTLEDND03JTvsXqKq6dqdhq9kt5pN7bX1s5IWe2lWRGx6MpIqrqnibQtGuY7XVtb03T7mYfuoru6SNn7cKxBPPpQM1KK5zwdrGparFq8WsSWk0+n6k9ostnA0KSKI43B2s7kH5z/F2ro6PMOtgopk00VtC81xIkUUY3O7sFVR6knpVDSvEeia5JKmiazp+ovD/AK1bS6SUx/UKTj8aANKiuW8T/EHQvC2s6Zpuo6jp8U15ceXMs98kTW0fluwlZTztJQLzgZbr2rY0jxFomvrKdB1iw1MQkCU2V0k2zPTO0nGcHr6ULXUHpuaNFecaj448SQfE/XvDtnaWBsdP0FtSt5ZIXMjSYAVWIcAruzwADgde9bvw08R6n4t+Hel67rkNtDeXyPI0dqjKgXewXAYk8gA9e9C1V/63a/Rg9Hb+tk/1R1VFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFTTf+PZv98/yFW6qab/x7N/vn+Qq3QBl+J/8AkUdY/wCvGf8A9FmovB//ACI2hf8AYOt//Ra1f1Sy/tLSLyx8zy/tMDw79udu5SM479az/C2laroujw6fq2o2d+lrDHDbvbWTW5Cou35t0r7icDkbfpRHRy+X4X/zFL7Pz/T/ACM74gf8eOif9h6w/wDR611dYd/4I8KapfSXup+GNGvLqUgyT3GnxSO5xjlipJ4AFaGl6PpmiWf2TRdOtNOttxfybSBYk3HqdqgDPHWhaK3nf8Ev0G9X/Xn/AJnPN/yWeP8A7F9v/Sha62uc0/w9qkfjSXX9W1S0uf8AQ2s4Le2sWh2IZA+WZpX3HjHAWujojpBL1/NsX2m/T8kgqC5sbS8eB7u1hna3kEsLSxhjE+CNy56HBIyOeTU9FAyCCxtLWe4mtbWGGW6cSTyRxhWlYAAMxH3jgAZPYVxuu6ZZ6r8YdCi1GBbiKPR7yURuTsLCa3xuXo2OuDkZAPUA13Nc/ceAfB13cy3N34T0OeeZy8ksumwszsTkkkrkknvQtJJ9v8rA9U13/wA7m1HaW0NzNcQ28Uc84USyqgDSbRhdx6nAPGelcw3/ACWeP/sX2/8ASha6GDR9MttI/sq2060h07Y0f2OOBVh2NncuwDbg5ORjnJrH/wCFceCP+hN8P/8Agrg/+Jo+0n2v+Ka/UHrG3p+DT/Qr+MvL/trw3/avl/2L9sf7T5v+r87YfI3542784zxv8vvisr4l/wBjf2x4T8/yf7Y/tu0+z7ceb5XmjfnHPl5x143be+K7lLCzj05bCO0gSzWMRLbLGBGEAwFC9MY4x0rLj8E+FIdPmsYvDOjpZzsHlt1sIhHIw6Fl24JHbNGzT7NMfT5WOYv4dYPxcumh1HSrF5LCFdMbUtPe53rlvOWIieMK24IWABJGzsONPSNHvrLx419qmv6PJd3FkySWNhYNavcAMpWVw08hbZkgHH/LQjPSukvNH0zUdOGn6hp1pdWQAAtp4FeMAcAbSMcVBZ6Xo3hfTp20nSbfT7dVMkkWnWQBbHPCRrlj7AEmhafiLf8AA06K5v8A4TzSP+fPxB/4Tmof/GKs2WvaV4kM+nCy1B45IW82PUNGubeKRDwVJmjVWzn7ueRnjrRr0AzW/wCSzx/9i+3/AKULS+MvL/trw3/avl/2L9sf7T5v+r87Yf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#Converting started\_at and ended\_at from chr to dttm format

all\_rides**$**start\_time **<-** mdy\_hm**(**all\_rides**$**started\_at**)**

all\_rides**$**end\_time **<-** mdy\_hm**(**all\_rides**$**ended\_at**)**

#checking str for dttm format

str**(**all\_rides**)**

![A close up of a document

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJlZERldmlsAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADODgAAJKSAAIAAAADODgAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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#removing columns that will not be used for analysis

all\_rides **<-** all\_rides %>%

select**(-**c**(**start\_lat, start\_lng, end\_lat, end\_lng**))**

#checking if the columns were removed

colnames**(**all\_rides**)**

![A white background with black text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJlZERldmlsAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMTkAAJKSAAIAAAADMTkAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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#checking number of observations under each type of user and ride

table**(**all\_rides**$**member\_casual**)**

table**(**all\_rides**$**rideable\_type**)**

![A close up of numbers

Description automatically 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#Calculate the number of rows in the data frame with unique ride\_id values

length**(**unique**(**all\_rides**$**ride\_id**))==**nrow**(**all\_rides**)**



all\_rides\_unique **<-** all\_rides**[!**duplicated**(**all\_rides**$**ride\_id**)**, **]**

nrow**(**all\_rides\_unique**)**

options**(**max.print **=** .Machine**$**integer.max**)#to max print**



The no of rows changed from 5667717 to 5667645 so 72 rows with duplicate values were removed.

#checking the file for NA,NULL value,empty columns and remove them

colSums**(**is.na**(**all\_rides\_unique**))**

![A close up of a white background

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJlZERldmlsAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNDUAAJKSAAIAAAADNDUAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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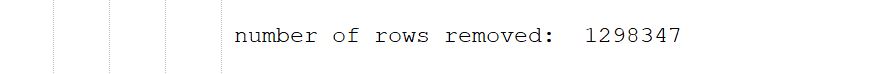
#removing empty and missing data

all\_rides\_clean **<-** all\_rides\_unique

all\_rides\_clean **<-** all\_rides\_clean %>% filter**(!(**start\_station\_id**==**"" **|** start\_station\_name **==** "" **|** end\_station\_id**==**"" **|** end\_station\_name**==**""**))**

#checking number of rows removed

cat**(**"number of rows removed: ", nrow**(**all\_rides\_unique**)** **-** nrow**(**all\_rides\_clean**))**



#Adding date, month, day, year, and day of week

all\_rides\_clean**$**date **<-** as.Date**(**all\_rides\_clean**$**start\_time**)**

all\_rides\_clean**$**month **<-** format**(**as.Date**(**all\_rides\_clean**$**date**)**, "%m"**)**

all\_rides\_clean**$**day **<-** format**(**as.Date**(**all\_rides\_clean**$**date**)**, "%d"**)**

all\_rides\_clean**$**year **<-** format**(**as.Date**(**all\_rides\_clean**$**date**)**, "%Y"**)**

all\_rides\_clean**$**day\_of\_week **<-** format**(**as.Date**(**all\_rides\_clean**$**date**)**, "%A"**)**

#adding ride length column

all\_rides\_clean**$**ride\_length **<-** difftime**(**all\_rides\_clean**$**end\_time, all\_rides\_clean**$**start\_time, units **=** "secs"**)**

#checking the new added column

str**(**all\_rides\_clean**)**

head**(**all\_rides\_clean**)**

![A close up of a text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJlZERldmlsAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMDQAAJKSAAIAAAADMDQAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooApXH+vb8P5VHUlx/r2/D+VR0AFFFFAGjVXU9OttX0u50+/j8y2uY2ikUHBwRjg9j6HsatUUBscle+GPEepabNpN54qjOnSxGJpItO2XbqRjDS+Zs57lY1PoVPNRw+CtRj8O6BanWrf+0/D7L9iu1sCImURGLEkJlJbKE5KupzyMdK7GigP6+84y48JeJL3W9L1i88U2z3WnTs8dumllbUo0bI3yedv34b7xkIHZeTnZ8S6A+uQ2Ulpe/Yb/AE65F1aTmLzUV9rIQ6ZG5SrsCAQeeCK2qKAMbStO12G+a51zXorxdmxbWzsRbwj/AGjuaRy3/AwOTxWVaeFNd0mGaw0PxHb2mmS3Es6iTTRLdReY5dwspkCH5mbBaNiM87q66igDA8HeHrzwvoraZdammowpNJJbyG3McoV5GciRi7B2yx+YBfpVRvCerH4mL4mHiq+GmC28k6Hg+QW243/exnPP3c5744rqqKOtwKmpx6lLZldGu7W0udwxJd2rTpjuNiyIc++78K5/wv4d8S+HrWzsJ9d0q70+3LbkTSJI5XBJPDm5YDk/3TXV0Udbgcv4w8N614kW3gsNYsLC0guILoJPprzyGWKUSL8wnQbSVAI256888a+kQa1Csv8Ab2oWF6xI8o2Vi9tt65zumk3dumMe9aNFC0VgerucjaeFNd0mGaw0PxHb2mmS3Es6iTTRLdReY5dwspkCH5mbBaNiM87qonwBq4+Hl74TTxDbNFcSSeXdzac7yLHJI0jB/wB8A75b742j/ZrvKKVtLDuc+ug6ofE+na1Nqdo0kNk9pdxrYsonDMG3RnzT5fKjg7+M/Ws/TPAktn4ZtdMudVD3GnXcl1p19bW3lSW5YscMGZw/Dup6AqcYB5rsKKfS39b3/MXW/wDW1jAttN8UNOn9peIrIwKwbFhpZhkcA/dZpJZFwehwoPXBHbfoooAK5bxv4T1XxSumDR/FV94dNnc+dMbME/aV/uNhl4+uRzyDXU0UdbgFFFFABRRRQAUUUUAUNZttQvNLkt9Ju7a0nkG0y3Ns06hSMH5VkQ59934GqXhjQbvQfBdloVxqSzyWdstrHd21v5JCqu1W2szjcAB1yCe2OK3KKO/mHbyOUuvDvifULSTTr7xVD/Z8ymOV7bTPKvHQ8Eeb5hQEjgssQPpg81sXnh7Tb7ww/h+a3H9mvbC1ESnG1AMDB7EYGD2IFadFD1Vg63OVTwvrdz9ktdc8Rpf6baSxyiJLHyp7kxkMnnS7yGG4BjsRMkc8ZB2NXt9am8k6FqNjZFc+aLyxe5D9MY2yxlSOe561pUUAZGkaAmnX11qN1cvfaneBVmuZAFARc7Y0UcIgJY45JJJJJ5rBg8JeJrPxBf6tb+IdJnubp2CTXujSSywQbsrCrLcqAo46KNx5OTXa0UB0sUNGttStNO8vWtRj1G7Mjs08Vt5CAFiVUJubAUEDliTjJOax7jw5rWs2slh4l1y2uNNk4kg0+xa1edO6SO0r5UjghQhPIzg4rp6KAM3WNEt9X0tLMs1t5Mkc1vJCADDJGwZCARjgjoRgjis+20DVbnUrO88Tara3/wDZ8hltYrKxa2QSFGTe+6WQsQrsBgqBknBOMdFRQAUUUUAc1/wjmq6XLOPCurWlja3EzTva31g1ykbuSzmPbLGVDMSxBLDJOMZxTbvwndP4Y1Wws9TjXUdXDC81C6tTLv3JsOI1dNoCgBRnAxzuOSenopWVrDu07nHab4S8RaNpNvo2neLFXTYIliR59OEl1EoGMJL5gQAY+XfG5A6lutXr3wpKPD+maV4d1e50VNPmSRZYh5jSqoOUbccNuJyc5z9eR0dFVdt3JSsrHMP4c1nVLy0PiTWbO6s7O5S6igstPa3Z5EOU3u00mQDg4ULkgZ4yDp+JtKutc8M32madqk+kXNzEUjvrcHfAf7wwQfyIPuK1KKT1Vir63MnwvpF3oPhix0zUtWn1i6to9kl9cA+ZMck5OST3xyT061rUUU27u5KVlYrajp9rq2m3On6jCs9rdRNFNE3R1YYI/KsMaJ4mjjWyj8UQ/YVXZ5smnbr3b/128wR7scbjEfXBPNdLRSGZR0q407w/b6b4XntbA2yrHE13bPcIEAxgqJEJJ9d351k+F/DviXw9a2dhPrulXen25bciaRJHK4JJ4c3LAcn+6a6uijrcOlgooooAKRtxU7CA2OCRkA/SlooA4pvDHi9vEsWuHxJon2mO0ezCf2FNs2M6uTj7XnOUHf14rsoRKsEYuHR5QoDsiFVZsckAk4Ge2T9TT6KOlg63MjQ9C/si61a6luPtNxqd611JJs27V2qiR9TwqIoz3OTgZxWvRRQAVzHjLwc/ipbU22pvpksYkgnlji3ma1lXEsPUbc4UhucFRwa6eigd2jM1jQLPWfC91oMu+CzubY2x8kgFFIwMZyOPfIrnNa8HeJ/EWg3Okap4tt4reWExg2OleS0h7eYWlfcvcqnl56ZA4rtqKOtxLRWRj39lr1zoSW1tqmnQ37ArcXEmnSPE4IIO2MTgqeR1dun5Z/hLw/4h8Oadpul3et6Ze6bYWyWypFpUkMzqibVJc3DLngE/Jz7V1FFG1/MOxg+JNL17Vrea00nVtOsbS4t2hlW502S4kywIJVlnQDgjgqeR17U3wxpGvaLaW1jqmr6dfWVrbLBEtvpslvJ8oADM5ncHgHICjk9R0roKKFpt/X9XB6nI2nhTXdJhmsND8R29ppktxLOok00S3UXmOXcLKZAh+ZmwWjYjPO6orPwXrFj4Dv8AwzDr1rKtwZ0hurjT3d0jlZ2cPiYb3+c4YbR6qa7OilZWsO7TucdpvhLxFo2k2+jad4sVdNgiWJHn04SXUSgYwkvmBABj5d8bkDqW61sDRrvS/D9rpnhW6tbH7MAivfWz3QKAHOQJIyWJ53Fj345rZoqm29yUrbHHaB4Y8UaHeXTnxBpE8F9fte3Mf9jSqxLbQyo32kheF4JDY9+lamp+H7iXVzrGhagunak0KwTNLb+fDcIpJUSIGUkqWbBDKfmI5FbtFLol2H38/wDhzJ0uy1uK487WtZgusKVEFnZfZ4jkj5iGeR8jHZwOTweMZsWg+KLG5vZNP8VQSx3V086w6lpzXC26sciOMrMhAHuSPQCuoop3AyvD+hjQ7S4D3DXV1eXDXV1OVCCSVgASFHCqAqgDngcknJOWfCeqn4mDxMPFV8NMFt5P9h4PkFsY3/exnPP3c5744rqaKXX+u1gCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigClcf69vw/lUdSXH+vb8P5VHQAUUUUAaNNkZlido03uFJVc43H0zTqgv0uZNOuUsJFiumiYQSOOFfB2k8HgHHY0pbMa3PK42v9exqFl47/sTxxdWXlJpF1BbxpAc7vK8mSMylQ38eWz1GRxXrEIcQoJiGkCjeR0JxzXnV5P4r1szeB9a03QZbibTBLPqf2qR02sTHvEHlD58gkL5gA4+btXodrB9ls4bfzHl8qNU8yQ5Z8DGSe5NXstNv+H+e5PXXf/hv0Ja5/wAUeL7fwkttPqen3jWE0scMl/G0Iht2dwi790ivjJBJVTgV0FcL8S9RUWNhYQ2WqXU6anY3bfY9LubhBFHcoznfHGy5CqTtzn25FT9pLzQ+j9Gb2n+JjqGpR240PV7e3nVmgvp7dVikxzyAxePI6eYi57c1m+J9YNvr+j295Y6/a2w1KFIr6ynt1t7iR1IEcq+Z5hjyTkbByoP13dI1201tZWs4b+MREBvtunXFpnOennIu7p2zjv1rj/HPiC3uZ9KtrbT9cnksNat5rgxaHeOipGx3MHEW1h/uk57Zo2lH1X5oHflk/J/kd5dXUFlZzXV3KkNvAjSSyOcKigZJJ9ABXF+I/FUd14ZvXu9F8RWGmNAXTVY28gLgZViIpRPGucZLIoAzuwK0taC+N/BGpWukC7gkkG2MX1nNabnUq4UrKitsbAUkAjBPpVPWfFkl74fvbGy8O61Jqs1s8f2OXT5EjRipHzTkeUwGedjsT2BPFRUvyv8Ar+v0LhbmXqWNH8Rx6Z8OfDt7qb3F3dXljapHHGDLPdTNEDgAn5mPLEk4ABJIAJq3a+LAbyC31nRtS0NrqQRW733kskrkEhd8MkgUnHAYrk8DJrj10WfWfAvgy8S01fdocSR3ljG1xp9yw+z+W+w5jfKtgjnDAMBnIq5b6d4Z1G7t47fTvGd7LFcRSiK9uNUjiRlcMHb7TIsbBSA2AWPHAPFbSs6j9fw/r5GUb8q9D0SiiioKOR8T6w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Z0upEMDozsoDeUfMBLDLfJgdFOOcqy8K+KLfwTZ6dLb6R9vsNWF/Eq38pimTz2mKl/Iyp+bbwrZxnjOK9Doo2t5f53B63v1/ysc5pej6nZeO9a1OZLQ6fqUFvtZZ2MsckalSpTZgqdxO7dngcc8dHRRQAUUUUAYviQa7NYva6DYaddLcQvHK97fvbmMkYGAsMm7qepHSqvg218QaXotjpWu2OmQxWNnFbpPZ38k7SsihclGhTaCBn7x9PeukooWl/wCv63B6nMf2br+ialqEnh6302/ttRuTdSJfXclu0EhRVOCsUm9Ttzg7SOeT20NB0JdJ0N7G5kW6e4mnnuW27Vd5pGdwFycLliAPQCteijpb+rB1/rc4lvDniRfD7eE7aWxj0Ywm0TUvtD/a47bG3YIvL27wnyh9/oxU9K7G1tobO0htbZBHDCixxoOiqBgD8hUtFO7AKydWbxDFcRy6FFpl1Dtw9teSSQNuz94Sqr8Y/h2fjWtRSA5vR9F1WTxLL4h8RSWkd19l+x29nZMzxwRlw7EyMFMjMVXnaoAGMdSWzaXrej6vfXXhi30+6g1OQT3EF9dPB5UwUIZFKxvuDKq5UgcjOea6aigDG8P+H10fRZbS7lF5cXk0txeyldomllJL4XnCjO0DJwqgZPWsJvDniRfD7eE7aWxj0Ywm0TUvtD/a47bG3YIvL27wnyh9/oxU9K7aigNdyK1tobO0htbZBHDCixxoOiqBgD8hUtFFNtt3YkrKyMnVm8QxXEcuhRaZdQ7cPbXkkkDbs/eEqq/GP4dn41R0fRdVk8Sy+IfEUlpHdfZfsdvZ2TM8cEZcOxMjBTIzFV52qABjHUnpKKS0G9TmZtL1vR9Xvrrwxb6fdQanIJ7iC+ung8qYKEMilY33BlVcqQORnPNXfD/h9dH0WW0u5ReXF5NLcXspXaJpZSS+F5woztAycKoGT1rZoo6W/q3YOpxLeHPEi+H28J20tjHoxhNompfaH+1x22NuwReXt3hPlD7/AEYqeldja20NnaQ2tsgjhhRY40HRVAwB+QqWindgFZurza3D5J0Gx0+8znzVvb17bb0wVKxSZ78EDtWlRSAw9J0O4i1q41zWbhJ9RniEEaQgiK1hB3eWmeWJblnON2F4AAFVZtL1vR9Xvrrwxb6fdQanIJ7iC+ung8qYKEMilY33BlVcqQORnPNdNRR6f1/X/BAxvD/h9dH0WW0u5ReXF5NLcXspXaJpZSS+F5woztAycKoGT1rCbw54kXw+3hO2lsY9GMJtE1L7Q/2uO2xt2CLy9u8J8off6MVPSu2ooDXcitbaGztIbW2QRwwoscaDoqgYA/IVLRRTbbd2JKysjL8TQazdeGb6DwvdwWWrvERa3Fwu5I39SMH37H6Gm+F7fW7TwxYweK7yC+1hI8XVxbptjkbJ5AwO2Ow+grWopDOV8caf41v49NHgPWLHTGjud16byLf5sX91fkbnr6fUV1VFFAHKtp/jX/hZi3q6xYjwj9m2tp/lfvzLt+9u2dM4P3+nGO9dVRRR0DqFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBSuP9e34fyqOpLj/Xt+H8qjoAKKKKAP/9k=)

#checking the ride\_length < 0

all\_rides\_clean %>%

filter**(**ride\_length **<**0**)**

#removing negative values as it might affect the analysis

str**(**all\_rides\_clean**)**

all\_rides\_clean **<-** all\_rides\_clean**[** all\_rides\_clean**$**ride\_length **>** 0, **]**

head**(**all\_rides\_clean**)**

all\_rides\_clean**$**ride\_length

#descriptive analysis on ride length

mean**(**all\_rides\_clean**$**ride\_length**)**

median**(**all\_rides\_clean**$**ride\_length**)**

max**(**all\_rides\_clean**$**ride\_length**)**

min**(**all\_rides\_clean**$**ride\_length**)**



#condensed the four lines into one line using summary() on the specific attribute

summary**(**all\_rides\_clean**$**ride\_length**)**

![A close up of a word

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJlZERldmlsAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNTIAAJKSAAIAAAADNTIAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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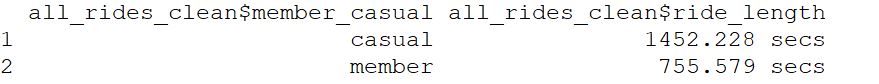
#comparing members and casual users

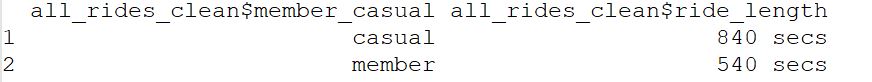
aggregate**(**all\_rides\_clean**$**ride\_length **~** all\_rides\_clean**$**member\_casual, FUN **=** mean**)**

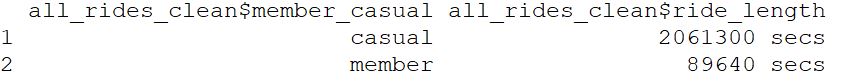
aggregate**(**all\_rides\_clean**$**ride\_length **~** all\_rides\_clean**$**member\_casual, FUN **=** median**)**

aggregate**(**all\_rides\_clean**$**ride\_length **~** all\_rides\_clean**$**member\_casual, FUN **=** max**)**

aggregate**(**all\_rides\_clean**$**ride\_length **~** all\_rides\_clean**$**member\_casual, FUN **=** min**)**









#Average ride time by each day for members vs. casual users

aggregate **(**all\_rides\_clean**$**ride\_length **~** all\_rides\_clean**$**member\_casual **+** all\_rides\_clean**$**day\_of\_week, FUN **=** mean**)**

![A screenshot of a computer

Description automatically 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#fixing the days of the week in order

all\_rides\_clean**$**day\_of\_week **<-** ordered**(**all\_rides\_clean**$**day\_of\_week, levels**=**c**(**"Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"**))**

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Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJlZERldmlsAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNDcAAJKSAAIAAAADNDcAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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igAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKr39haapYy2eo20V1bTDEkMyBlbvyD781YooA5+DwPoUF3FcyQ3d68Lh4l1DULi7SJh0ZEmdlUjsQARU+q+FNJ1m+W9u47mK7WPyjcWV7NaSMmchWaF1LKCSQCSBk1s0UAYOk+CtA0HUzf6PZPZztGI5PKuZQkwBJDSJu2u+WY72Bbk81E/gLw+bq5uYILyznu52uLiWx1G5tmmdjkljHIu72B4Haujop3YFTTdLs9IsEs9Ot1ggUk7QSSSTksSeWYkkknJJOTWN/wr/w4YJbd7OeS0lUobKS+ne2QH+5CX8tMZ42qMdsVs6lqun6NZNeaxf2thaqQrT3UyxICeg3MQOasxyJNEksLrJG6hkdTkMD0IPcVNkw2Mibwlo9xodrpVxBPLbWbB7d3u5jPCwzhlmLeYpGSMhs4OOnFUR8O/DQuobv7LdtewSCRL59SuWuQcFdpmMm8pgkbCxXk8V09FPrcOljG1rwrpviCQtqUmo4MXlNHbapc20bLzkMkUiqep5Izjik0Twnpnh51OmPqIVYvJSK41W5uI0QYwFSSRlGMAAgZA4raooWmwPXcKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACsu78NaTfeJLDX7uzEmp6dG8drOXb90rjDfLnacjuRmtSijzAzNP8OaVpetalq1haeTe6oUN3KJGIkKAhflJwvU9AM55zVfUfCOj6lfPeSx3VtcyAebNYX89m0uOBvMLrvx/tZrbooAo6do2n6VbSQWNssaTNumLEu0zYxudmyznAAyxJwBWSfh94bbCvZTSW4+5ZSXs7WsfpsgL+WmO21Rg8jFdJVbUdSsdIsXvdWvbextY8b57mVY0XJwMsxAHJAofmO7MOb4feH59BtNGlj1A2Fm4eCIatdjYVIK/MJdxClVKgkhccYq1qnhHStZWwW/+3t/Z5BtzHqdzEVYDAZikgLtj+Jsnk88nOvBPFdW8dxbSpNDKgeOSNgyupGQQRwQR3qSnrcXQzdX0DTdcER1GBjJCT5U8MzwzRZ67ZIyrrnvgjNR6X4Z0vSLj7RaxTy3O0oLi8upbqVVJBKiSVmYAkDgHHA9K1qKS02A5x/AXh83VzcwQXlnPdztcXEtjqNzbNM7HJLGORd3sDwO1bGn6VY6Vpy2NhbJFbDdlPvbixyxYnJYkkkk5JJJNW6KOlg8zmz8PvDbYV7KaS3H3LKS9na1j9NkBfy0x22qMHkYqVfBOhLoFto32e4aztHD22+9naW3YDAMcpfzEwOBtYYHA4rW1HUrHSLF73Vr23sbWPG+e5lWNFycDLMQByQKlgniureO4tpUmhlQPHJGwZXUjIII4II70Ac4Ph34aF1Dd/Zbtr2CQSJfPqVy1yDgrtMxk3lMEjYWK8nineMNR1eLS72w0bwrea1LcWjrG4ltkty7AgK/mSq2PXCng10tFJq6s9hp2dzC8E6THoXgnS9Mis7izFtAEaK6ZDKWydzMUZlyxy3DH734Vu0UVUm5O7JSsrIKKKKQwooooAKKKKAON8cWNpaxaVc2trDDPca/YGaWOMK0h85R8xHJ445rsJJEijaSVlREBZmY4AA6kmuP8Xaf4r1ma2g0zTdGNrZ6hb3kc1xqkqPKInD7Sgt2C5IIzuPr7V0dh9vvNNdPEFhZQSSbkeC3uWuY2QjuzRpnPORt/E0lfkaXf9EN25l6fqzzTX4316ztfF94rCO41nToNJhcf6m1F5HmT/elIDf7ojHY161XmvjH4XWF9DaweFvBfhJAlzDcTTTotuxEcqs0WEt3yrqCpJI69DXo8K7II08tI9qgbE+6vHQcDj8BVK3Jbz/Rf5Cd+a/l+rH0UUUgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArkPF2s+JdO8RaDYeHf7MePVZZIHF7C5MJWNnMu5XG4AL9zAJ/vDOR19cv4j0vXL3xZ4fv9KttPltNMlkkmNzePFI2+NoyFVYmBwG3ckZIxx1o6jOdl8ZeL7PTtU1K9h0Y2mhXotLtY4pd96Nybnjy+IcJIuFbzMsCMgYJ0vEvj2HT/ABO+hQa9oGhy28CTT3WtSgg7ydqRxeZGWOASW3ADK8HJxFqfhHXb3QPFulxLp4XVbv7VZStcvkk+XlZF8v5MeX1BbOegxWtNpGtWurNr2jx2Av7y2ii1DT553EMjJnayTBNwI3MuTGdwxwMUui+V/W3+f9WF1fzt9/8Al/Vyh4d8dRazrUugRa3oWqX5tHuYL7SpBJCdrBSJIRIzIQWU43ncM8jFYll4z8dy+HrPV5bXQZUutSbTI7dFljZ281olnLF2CruUZjwxwCQ2Tiu4spPE0hkl1G10m22xMEtYLmWbzH/hJmKJtXsR5bHnOeMHlbLwr4ot/BNnp0tvpH2+w1YX8SrfymKZPPaYqX8jKn5tvCtnGeM4p9V8r/f/AJf577GydvO33f5k13rOqXXhvxto+vGzlvNMsHIuLKJoo5Ult2YfIzMVIIYH5iDweOlO8PS+N7nwjpt9aJo1rH9jiMOmXUMryyKEGN86uFjZh28t9vTLUav4b8SSaj4qk0220qaHXrGK3Q3F9JE0LrG0ZyBCwIw5IOewGBnIsaRp/jnRtDtdGR9FvVt4EhTU55pVkQBQBugCYkIx18xN3XC9KF1+X4X/AK7B/L8/0/ruR6r8SLO28MaPqEUtnp8+sSmGNtVuFihtWTPm+Y2eSpVl2g/M2BkA5FG2+JVtZahZQ33i3wrr8d5cx223SJRDNCznareWZpfMXcQDgqQCTzittvBQtNE0eHSLvy9Q0WRpre6nTcJXcMJRIq44fexOMYOCOlW7abxfPOiXljolhEGBaaK8mumdc8gIYotpI6HccZ6HHLXxfP8AD+vmLp/X9foUvHWt654ctbLUdI+x3Fu15bWs1lJbM003mzKnySeaqocNxuUjPUitDTx4qOpRy6o+kfYZFbzLaBJRLbn+HEpYrL6H5I/UZ6Vm+OdK8R63Da2miWelvbwXlteNNeahJC5aGZZNmxYXGDtA3buM9OOd3SJ9amWX+3tPsLJgR5Qsr57nd1zndDHt7dM59qUfh+b+7T9bjlv8v8/+AaNFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXk2uw6X4d+IHifVbfRNLn1hrSwn02We1VmFzLLLACCBu5bZkqQTj8a9Zritf8GX+r/E7QteiuYE0uyiIvIGZvMmdCzQ7RjGA7ZOSOg4pWvJB9l/11Oc8LW+leJPiDoGutoem2upDR7i7vmgtVVvtZmSJiWxkkFJQCSTyefW7/wALMh1K5uZLPxj4Q0O2ineGO31OQTXEgRtpdgJ4/LBIOBhjjBOM4Gr4T8FXvh/x14i1a4ngksb4j7BGjMXhDSPLKGBUAZkfIwT+HAq3aaT4g8MJLZ+G7fTNR015pJoYb27ktXtt7F2QMsUgddzHHCkA45xTvpH+t3f8Fp/SB7v+un+ZFpfxE06+8J6rrLPbz/2TM0E32C4WeKd8KU8pxwd+9AM4wxIPTNR62/jSDw7fXs39jXEf2WRpNMhhlWVBsOQtwXKuw7ZiUHpletbF1o95r/hy+07xG9shuwQgsg3+j9Cp3t99lYbg21R044yczULTxvqWk3GksdFthNC0TapHNK0jZXBItzHhCc9fMcL1w3SpqK8Wlvb+v6+4uGklfv8A1/X3mVJrmr+Hfg74X1HQ0tJ5BbadC9tcxsfOWQRx7VcMNh+bO4hh7VrnVfE+jatpS6+dKurTU7j7KUsYZIntJCjOvzO7CVfkKk7UPIOO1ZV74a8Vz/DjRdAis9G+2WD2nms2pSiMrbvGylT9nyS2wgggbc9WrZ8Taf4i1JtBk02y0xnsrtLy5W4v5IwGCMuxCIW3D5z8xC9BxzxrJpzb7y/DT/gma0hby/EoeJfHsOn+J30KDXtA0OW3gSae61qUEHeTtSOLzIyxwCS24AZXg5OJfC/ju11fxCdBfWNF1i5+zNcx3mjTho3VWCsrx73MbDcpHzMGGemMVo3+jalZ+IJ9c8Nm0kuLuFIbuzvHaOObYW2OJFVijAMQflYEY6YFXNLfxDNceZrUGmWcIUjyLSaS5ZmyMN5jLGAMZ42HOeoxzEfMbOZ1fxne23ii906fWdA8M29q6JAdaRnk1AMgYvH+9iUKCdnBc5U5A6VrweIr/TfB97rXie3tka3eRoksZN6zx7sQlSTyXyvXHJ7UyIeObK5vTs0XVoJbp3tVmupLV4ISflVmWFw5x7D6tTbLwb5nhLVNJ1eZd+qTyXDrajEdo7YIEWf7pUNkjlstgZxR0+X+X4/gN7/P/P8AD8Srrb+NIPDt9ezf2NcR/ZZGk0yGGVZUGw5C3Bcq7DtmJQemV61Not7c6f8ACHRLqyewjlj0q1PmajOYYIx5aZZmAPQduM9MjrSahaeN9S0m40ljotsJoWibVI5pWkbK4JFuY8ITnr5jheuG6VR/4RLXJvCPhi2uoNKkvvD7xn7FJcSSWt2EhMQLP5YKMM7x8jBSB16g/m+X6/5+odF8/wBP67CaJ47a58U6fpR8Q+GvEMeoGRQ2jPsktWWNnG9fNk3KQrDdlcHHBzxr6xq2tab430a2M9hHoeol4Sz2jtMs4XcqeZ5oVQ4DYJU8rjncCM680rxpqPiLRdXnh0KKPTLh2/s+O6lOVeJoy/nmLJI3cJ5ajrljxja8cWtndeCtTOoXP2OO3hNyl2BzbSR/Okg91ZQffGKTdkpdgirvl7lWfVtam+I8Wj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#Running the Average ride time by each day for members vs. casual again after fixing the days of the week order

aggregate **(**all\_rides\_clean**$**ride\_length **~** all\_rides\_clean**$**member\_casual **+** all\_rides\_clean**$**day\_of\_week, FUN **=** mean**)**

![A screenshot of a computer

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJlZERldmlsAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNDEAAJKSAAIAAAADNDEAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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#Analyzing ridership data by type and day of the week

all\_rides\_clean%>%

group\_by**(**member\_casual, day\_of\_week**)** %>%

summarise**(**number\_of\_rides **=** n**()**,

average\_ride\_length **=** mean**(**ride\_length**))** %>%

arrange**(**member\_casual, day\_of\_week**)**

![A screenshot of a computer

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJlZERldmlsAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADOTMAAJKSAAIAAAADOTMAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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#Removing scientific notation from the plot to get entire number displayed on the ggplot

options**(**scipen**=**999**)**

#Visualizing the data

# Total Number of rides by rider type (member vs.casual) in a week

all\_rides\_clean %>%

group\_by**(**member\_casual, day\_of\_week**)** %>%

summarise**(**number\_of\_rides **=** n**()**,

average\_ride\_length **=** mean**(**ride\_length**))**%>%

arrange**(**member\_casual, day\_of\_week**)** %>%

ggplot**(**aes**(**x **=** day\_of\_week, y **=** number\_of\_rides, fill **=** member\_casual**))** **+**

geom\_col**(**position **=** "dodge"**)** **+**

labs**(**title**=**"Total Number of Rides by Member vs. Casual in A Week", x **=** "Day of Week", y **=** "number of rides"**)** **+**

theme**(**axis.text.x **=** element\_text**(**angle **=** 60, hjust **=** 1**))**

Member riders appear to ride more often than the Casual riders in a week.

A graph of blue and pink bars

Description automatically generated

#Average ride length by rider type (Member vs. Casual)in a week

all\_rides\_clean %>%

group\_by**(**member\_casual, day\_of\_week**)** %>%

summarise**(**number\_of\_rides **=** n**()**,

average\_ride\_length **=** mean**(**ride\_length**))**%>%

arrange**(**member\_casual, day\_of\_week**)** %>%

ggplot**(**aes**(**x **=** day\_of\_week, y **=** average\_ride\_length, fill **=** member\_casual**))** **+**

geom\_col**(**position **=** "dodge"**)** **+**

labs**(**title**=**"Average ride length by Member vs. Casual in A week", x **=** "Day of Week", y **=** "average ride length"**)** **+**

theme**(**axis.text.x **=** element\_text**(**angle **=** 60, hjust **=** 1**))**

Casual riders ride for longer time than Member riders on average in a week.

A graph of a person and person

Description automatically generated with medium confidence

#Total Number of rides by Ride type

all\_rides\_clean %>%

group\_by**(**member\_casual, rideable\_type**)** %>%

summarise**(**number\_of\_rides **=** n**()**,

average\_ride\_length **=** mean**(**ride\_length**))**%>%

arrange**(**member\_casual, rideable\_type**)** %>%

ggplot**(**aes**(**x **=** rideable\_type, number\_of\_rides, fill **=** member\_casual**))** **+**

geom\_col**(**position **=** "dodge"**)** **+**

labs**(**title**=**"Total Number of rides by Ride Types", x **=** "Ride Type", y **=** "Number of Rides"**)** **+**

theme**(**axis.text.x **=** element\_text**(**angle **=** 60, hjust **=** 1**))**

Both Casual and Member riders appear to enjoy riding classic bikes more than electric bikes A graph showing a number of rides

Description automatically generated

#Average ride time by Month

all\_rides\_clean %>%

group\_by**(**member\_casual, month**)** %>%

summarise**(**number\_of\_rides **=** n**()**,

average\_ride\_length **=** mean**(**ride\_length**))**%>%

arrange**(**member\_casual, month**)** %>%

ggplot**(**aes**(**x **=** month, y **=** average\_ride\_length, fill **=** member\_casual**))** **+**

geom\_col**(**position **=** "dodge"**)** **+**

labs**(**title**=**"Average ride time by Month", x **=** "Month", y **=** "average ride length"**)** **+**

theme**(**axis.text.x **=** element\_text**(**angle **=** 60, hjust **=** 1**))**

On average Casual riders rode for longer period than Member ridersA graph of a number of people

Description automatically generated with medium confidence

#Number of rides by month

all\_rides\_clean %>%

group\_by**(**member\_casual, month**)** %>%

summarise**(**number\_of\_rides **=** n**()**,

average\_ride\_length **=** mean**(**ride\_length**))**%>%

arrange**(**member\_casual, month**)** %>%

ggplot**(**aes**(**x **=** month, y **=** number\_of\_rides, fill **=** member\_casual**))** **+**

geom\_col**(**position **=** "dodge"**)** **+**

labs**(**title**=**"Number of Rides by Month", x **=** "Month", y **=** "Number of Rides"**)** **+**

theme**(**axis.text.x **=** element\_text**(**angle **=** 60, hjust **=** 1**))**

The number of rides is higher for Member riders from June to August and June to July for Casual riders.

A graph of a number of rides

Description automatically generated