

```
1 - ---
2   title: "midvikudagsaefing6"
3   author: "Thor Sanchez"
4   date: "2024-03-13"
5   output: html_document
6 - ---
7
8 - ````{r setup, include=FALSE}
9   knitr::opts_chunk$set(echo = TRUE)
10 - ```
11
12 - ````{r}
13   library(tidyverse)
14 - ```
15
16 - #1
17 - ````{r}
18   # Load the dataset and store it in an object with your initials
19   TS_dat <- read.csv("path/to/downloaded/spurningar_um_lifid_24.csv", sep = ";", dec = ",")
20 - ```
21
22 - #2
23 - ````{r}
24   set.seed(37) # Set your favorite number here
25   TS_sample <- sample_n(TS_dat, 200)
26 - ```
27
28 - #3
29 - ````{r}
30   ggplot(TS_sample, aes(x = travel_mode, y = travel_time)) +
31     geom_boxplot() +
32     xlab("Travel Mode") +
33     ylab("Travel Time") +
34     ggtitle("Travel Time by Mode of Travel")
35 - ```
36
37 - #4
38 - ````{r}
39   travel_mode_counts <- TS_sample %>%
40     group_by(travel_mode) %>%
41     summarise(count = n()) %>%
42     filter(count >= 10)
43
44   # Filter the sample to exclude travel modes with fewer than 10 observations
45   TS_filtered <- TS_sample %>%
46     filter(travel_mode %in% travel_mode_counts$travel_mode)
47 - ```
48
49 - #5
50 - ````{r}
51   # Assuming 'travel_time' is numeric and 'travel_mode' is the grouping variable
52   anova_result <- aov(travel_time ~ travel_mode, data = TS_filtered)
53   summary(anova_result)
54 - ```
55
56 - #6
57 - ````{r}
58   # The same ANOVA analysis as in Task 5 can be discussed here
59   summary(anova_result)
60 - ```
61
62 - #7
63 - ````{r}
64   TukeyHSD(anova_result)
65 - ```
66
67 - #8
68
69
```