Final Project (Group 2)

Group 2

2024-05-02

```
library(readxl)
library(dplyr)
```

```
library(dplyr)
data <- read_excel("WHR_2015.xlsx", col_names = TRUE)
data <- data %>%
  rename(
    HappinessScore = `Happiness Score`,
    GDPPerCapita = `Economy (GDP per Capita)`,
  )
colnames(data)
```

```
##  [1] "Country"                    "Region"
##  [3] "Happiness Rank"             "HappinessScore"
##  [5] "Standard Error"             "GDPPerCapita"
##  [7] "Family"                     "Health (Life Expectancy)"
##  [9] "Freedom"                    "Trust (Government Corruption)"
## [11] "Generosity"                 "Dystopia Residual"
```

```
colnames(data) <- c("Country", "Region", "Happiness Score","Happiness Rank","Economy (GDP per C
```

```
head(data)
```

Country	Region	Happiness Score	Happiness Rank	Economy (GDP per Capita	Health (Life Expectancy)	Freedom	Trust (Government Corruption)	Family	Generosity	Dystopia Residual	Standard Error
Switzerland	Western Europe	1	7.587	0.03411	1.39651	1.34951	0.94143	0.66557	0.41978	2.29678	2.51738

Country	Region	Happiness Score	Happiness Rank	Economy (GDP per Capita)	Health (Life Expectancy)	Freedom	Trust (Government Corruption)	Family	Generosity	Dystopia Residual	Standard Error
Iceland	Western Europe	2	7.561	0.04884	1.30232	1.40223	0.94784	0.62877	0.14145	2.43630	2.70201
Denmark	Western Europe	3	7.527	0.03328	1.32548	1.36058	0.87464	0.64938	0.48357	2.34139	2.49204
Norway	Western Europe	4	7.522	0.03880	1.45900	1.33095	0.88521	0.66973	0.36503	2.34699	2.46531
Canada	North America	5	7.427	0.03553	1.32629	1.32261	0.90563	0.63297	0.32957	2.45811	2.45176
Finland	Western Europe	6	7.406	0.03140	1.29025	1.31826	0.88911	0.64169	0.41372	2.23351	2.61955

```
data <- read_excel("WHR_2015.xlsx", col_names = TRUE)
data$`Economy (GDP per Capita)` <- as.factor(data$`Economy (GDP per Capita)`)
```

```
summary_stats <- data %>%
  summarize(
    Mean = mean(`Happiness Score`, na.rm = TRUE),
    Median = median(`Happiness Score`, na.rm = TRUE),
    Standard_Deviation = sd(`Happiness Score`, na.rm = TRUE),
    Minimum = min(`Happiness Score`, na.rm = TRUE),
    Maximum = max(`Happiness Score`, na.rm = TRUE)
  )

print(summary_stats)
```

```
## # A tibble: 1 x 5
##    Mean Median Standard_Deviation Minimum Maximum
##   <dbl>  <dbl>              <dbl>   <dbl>   <dbl>
## 1  5.38   5.23               1.15    2.84    7.59
```

```
data %>%
  summarize(center = median(`Happiness Score`, na.rm = TRUE))
```

center
5.2325