RWorksheet_Siatan#4

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```
ShoeSize <- c(6.5, 9.0, 8.5, 8.5, 10.5, 7.0, 9.5, 9.0, 13.0, 7.5, 10.5, 8.5, 12.0, 10.5)

ShoeSize1 <-c (13.0, 11.5, 8.5, 5.0, 10.0, 6.5, 7.5, 8.5, 10.5, 8.5, 10.5, 11.0, 9.0, 13.0)

Height <- c(66.0,68.0,64.5,65.0,70.0,64.0,70.0,71.0,72.0,64.0,74.5,67.0,71.0,71.0)

Height1 <-c (77.0,72.0,59.0,62.0,72.0,66.0,64.0,67.0,73.0,69.0,72.0,70.0, 69.0,70.0)

Gender <- c("F", "F", "F", "F", "M", "F", "F", "F", "M", "F", "M", "F", "M", "M")
Gender1 <-c ("M", "M", "F", "F", "M", "F", "F", "M", "M", "F", "M", "M", "M", "M")

ShoeData <- data.frame (ShoeSize, Height, Gender, ShoeSize1, Height1, Gender1)
```

```
m_shoesize <- cbind(ShoeSize,ShoeSize1)
m_shoesize
```

```
##       ShoeSize ShoeSize1
##  [1,]      6.5      13.0
##  [2,]      9.0      11.5
##  [3,]      8.5       8.5
##  [4,]      8.5       5.0
##  [5,]     10.5      10.0
##  [6,]      7.0       6.5
##  [7,]      9.5       7.5
##  [8,]      9.0       8.5
##  [9,]     13.0      10.5
## [10,]      7.5       8.5
## [11,]     10.5      10.5
## [12,]      8.5      11.0
## [13,]     12.0       9.0
## [14,]     10.5      13.0
```

```
mean(m_shoesize)
```

```
## [1] 9.410714
```

```
m_height <- cbind(Height, Height1)
m_height
```

```
##       Height Height1
##  [1,]   66.0      77
##  [2,]   68.0      72
##  [3,]   64.5      59
##  [4,]   65.0      62
##  [5,]   70.0      72
##  [6,]   64.0      66
##  [7,]   70.0      64
##  [8,]   71.0      67
##  [9,]   72.0      73
## [10,]   64.0      69
## [11,]   74.5      72
## [12,]   67.0      70
## [13,]   71.0      69
## [14,]   71.0      70
```

```
mean(m_height)
```

```
## [1] 68.57143
```

```
 #c. Is there a relationship between shoe size and height? Why?

      #Yes, especially for the data of male repondents, when the height is increased the shoesize also
      #their shoesize varies.
```

```
months <- c("March","April","January","November","January","September","October","September","November"
"July","December","August","August","September","November","February","April")
```

```
factor_months <- factor(months)
factor_months
```

```
##  [1] March     April     January   November  January   September October
##  [8] September November  August    January   November  November  February
## [15] May       August    July      December  August    August    September
## [22] November  February  April
## 11 Levels: April August December February January July March May ... September
```

```
factor_months_vector <- factor_months
factor_months_vector
```

```
##  [1] March     April     January   November  January   September October
##  [8] September November  August    January   November  November  February
## [15] May       August    July      December  August    August    September
## [22] November  February  April
## 11 Levels: April August December February January July March May ... September
```

```
summary(factor_months)
```

```
##     April    August  December  February   January      July     March       May
##         2         4         1         2         3         1         1         1
##  November   October September
##         5         1         3
```

```r
summary(factor_months_vector)
```

```
##     April    August  December  February   January      July     March       May
##         2         4         1         2         3         1         1         1
##  November   October September
##         5         1         3
```

```r
Direction <-c("East", "West", "North")
Direction
```

```
## [1] "East"  "West"  "North"
```

```r
Frequency <-c(1, 4, 3)
Frequency
```

```
## [1] 1 4 3
```

```r
tab <- data.frame(Direction, Frequency)
tab
```

```
##   Direction Frequency
## 1      East         1
## 2      West         4
## 3     North         3
```

```r
factorS <- factor(Direction)

new_order_data <- factor(factorS,levels = c("East","West","North"))
print(new_order_data)
```

```
## [1] East  West  North
## Levels: East West North
```

```r
setwd("C:/Users/Floreda/OneDrive/Documents")
getwd()
```

```
## [1] "C:/Users/Floreda/OneDrive/Documents"
```

```r
exdata <- read.table("import_march.csv", sep=",", header=TRUE, stringsAsFactor=FALSE);
exdata
```

```
##   Students Strategy.1 Strategy.2 Strategy.3
## 1     Male          8         10          8
## 2                   4          8          6
## 3                   0          6          4
## 4   Female         14          4         15
## 5                  10          2         12
## 6                   6          0          9
```

```
View(exdata)
```