# RWorksheet_Delatina#4a

Angel

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1A

```
data <- data.frame(
Shoe_Size = 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, 13.0, 11.5, 8.5
Height = c(66.0, 68.0, 64.5, 65.0, 70.0, 64.0, 70.0, 71.0, 72.0, 64.0, 74.75, 67.0, 71.0, 71.0, 77.0, 71
Gender = c("F", "F", "F", "F", "M", "F", "F", "F", "M", "F", "M", "F", "M", "M", "M", "M", "F", "F", "M
)
data
```

```
##    Shoe_Size Height Gender
## 1        6.5  66.00      F
## 2        9.0  68.00      F
## 3        8.5  64.50      F
## 4        8.5  65.00      F
## 5       10.5  70.00      M
## 6        7.0  64.00      F
## 7        9.5  70.00      F
## 8        9.0  71.00      F
## 9       13.0  72.00      M
## 10       7.5  64.00      F
## 11      10.5  74.75      M
## 12       8.5  67.00      F
## 13      12.0  71.00      M
## 14      10.5  71.00      M
## 15      13.0  77.00      M
## 16      11.5  72.00      M
## 17       8.5  59.00      F
## 18       5.0  62.00      F
## 19      10.0  72.00      M
## 20       6.5  66.00      F
## 21       7.5  64.00      F
## 22       8.5  67.00      M
## 23      10.5  73.00      M
## 24       8.5  69.00      F
## 25      10.5  72.00      M
## 26      11.0  70.00      M
## 27       9.0  69.00      M
## 28      13.0  70.00      M
```

1B

```r
females <- subset(data, Gender == "F", select = c(Shoe_Size, Height))
females
```

```
##    Shoe_Size Height
## 1        6.5   66.0
## 2        9.0   68.0
## 3        8.5   64.5
## 4        8.5   65.0
## 6        7.0   64.0
## 7        9.5   70.0
## 8        9.0   71.0
## 10       7.5   64.0
## 12       8.5   67.0
## 17       8.5   59.0
## 18       5.0   62.0
## 20       6.5   66.0
## 21       7.5   64.0
## 24       8.5   69.0
```

```r
males <- subset(data, Gender == "M", select = c(Shoe_Size, Height))
males
```

```
##    Shoe_Size Height
## 5       10.5  70.00
## 9       13.0  72.00
## 11      10.5  74.75
## 13      12.0  71.00
## 14      10.5  71.00
## 15      13.0  77.00
## 16      11.5  72.00
## 19      10.0  72.00
## 22       8.5  67.00
## 23      10.5  73.00
## 25      10.5  72.00
## 26      11.0  70.00
## 27       9.0  69.00
## 28      13.0  70.00
```

1C

```r
mean_Shoe_Size <- mean(data$Shoe_Size)
mean_Shoe_Size
```

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

```r
mean_Height <- mean(data$Height)
mean_Height
```

```
## [1] 68.58036
```

2

```r
Months <- c("March", "April", "JAnuary", "November", "January", "September", "October", "September", "N
factor_Months <- factor(Months)
factor_Months
```

```
##  [1] March     April     JAnuary   November  January   September October
##  [8] September November  August    January   November  November  Febraury
## [15] May       August
## 10 Levels: April August Febraury January JAnuary March May November ... September
```

3

```r
summary(Months)
```

```
##    Length     Class      Mode
##        16 character character
```

```r
summary(factor_Months)
```

```
##     April    August  Febraury   January   JAnuary     March       May  November
##         1         2         1         2         1         1         1         4
##   October September
##         1         2
```

#4

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

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

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

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

```r
factor_Direction <- factor(Direction)
factor_Direction
```

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

```r
factor_Frequency <- factor(Frequency)
factor_Frequency
```

```
## [1] 1 4 3
## Levels: 1 3 4
```

#5

```r
data <- read.table("C:/Documents/RBasics/Worksheet4/import_march.csv", header =TRUE, sep =",",stringsAs
head(data)
```

```
##   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
```