```r
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)
height <- c(66.0, 68.0, 64.5, 65.0, 70.0,  64.0, 70.0, 71.0, 72.0, 64.0, 74.0, 67.0, 71.0, 71.0)
gender <- c("F", "F", "F", "F", "M", "F", "F", "F", "M", "F", "M", "F", "M", "M")

df <- data.frame(ShoeSize = shoe_size, Height = height, Gender = gender)
```

```r
#b
males <- subset(df, Gender == "M")
females <- subset(df, Gender == "F")
print(males)
```

```
##    ShoeSize Height Gender
## 5      10.5     70      M
## 9      13.0     72      M
## 11     10.5     74      M
## 13     12.0     71      M
## 14     10.5     71      M
```

```r
print(females)
```

```
##    ShoeSize Height Gender
## 1       6.5   66.0      F
## 2       9.0   68.0      F
## 3       8.5   64.5      F
## 4       8.5   65.0      F
## 6       7.0   64.0      F
## 7       9.5   70.0      F
## 8       9.0   71.0      F
## 10      7.5   64.0      F
## 12      8.5   67.0      F
```

```r
#c
mean_shoe_size <- mean(df$ShoeSize)
mean_height <- mean(df$Height)
cat("Mean Shoe Size", mean_shoe_size, "\n")
```

```
## Mean Shoe Size 9.321429
```

```r
cat("Mean shoe Size", mean_height, "\n")
```

```
## Mean shoe Size 68.39286
```

```r
#d
correlation <- cor(df$ShoeSize, df$Height)
cat("Correlation  between Shoe Size and Height", correlation, "\n")
```

```
## Correlation  between Shoe Size and Height 0.8018502
```

```r
#2
months_vector <- c("March", "April", "January", "November", "January", "September", "October", "Septembe
factor_months_vector <- factor(months_vector)
print(factor_months_vector)
```

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

```r
#3
summary(months_vector)
```

```
##    Length     Class      Mode
##        23 character character
```

```r
summary(factor_months_vector)
```

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

```r
#4
direction  <- c("East", "West", "North")
frequency <- c(1, 4, 3)

new_order_data <- factor(direction, levels = c("East", "West", "North"))

print(new_order_data)
```

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

```r
#5
write.csv("import_march.csv", row.names = FALSE)
```

```
## "x"
## "import_march.csv"
```

```r
data <- read.table("import_march.csv", header  = TRUE, sep = ",")
data
```

```
##   Sudents 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
```