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WORKSHEET 4

1. A. The data shows the shoe size, gender and height.

   B. code: **size <- cbind(shoe_size1, shoe_size2)**
   size
   mean(size)
   result: **9.410714**

   code: **height <- cbind(height1, height2)**
   height
   mean(height)
   result: **68.57143**

   C. Is there a relationship between shoe size and height? Why?

Answer: **Yes, there is a relationship between the two. It shows that the taller the person is, the bigger the shoe size.**

2.

```
#2
month <- c("March","April","January","November","January",
           "September","October","September","November","August",
           "January","November","November","February","May","August",
           "July","December","August","August","September","November","February","April")
factor_month <- factor(month)
factor_month

factor_months_vector <- factor_month
factor_months_vector
```

3.

```
> summary(factor_month)
    April    August  December  February   January      July     March       May  November   October September
        2         4         1         2         3         1         1         1         5         1         3
> summary(factor_months_vector)
    April    August  December  February   January      July     March       May  November   October September
        2         4         1         2         3         1         1         1         5         1         3
>
```

4.

```
#4
Direction <- c("East", "West", "North")
Direction
Frequency <- c(1, 4, 3)
Frequency

vec <- data.frame(Direction, Frequency)
vec
factor_vec <- factor(Direction)

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

5. A.

   Code: **e_data <- read.table("import_march.csv", sep=",", header=TRUE, stringsAsFactor=FALSE);**
   e_data

   B.

   Code: **View(e_data)**

   Result:

```
> 
> e_data <- read.table("import_march.csv", sep=",", header=TRUE, stringsAsFactor=FALSE);
> e_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
> 
```