Acosta-Worksheet4

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2022-12-11

```
##
     Shoesize Height Gender
          6.5 66.0
## 1
                         F
                         F
## 2
          9.0
                68.0
## 3
         8.5
                64.5
                         F
## 4
         8.5
                65.0
                         F
## 5
         10.5
                70.0
                         М
## 6
         7.0
                64.0
## 7
         9.5
                70.0
                         М
## 8
         9.0
               71.0
                         F
## 9
         13.0
               72.0
                         М
## 10
         7.5
                64.0
                         М
         10.5
                74.5
## 11
                         Μ
         8.5
                67.0
                         F
## 12
## 13
         12.0
                71.0
                         Μ
## 14
         10.5
                71.0
                         Μ
## 15
         13.0
                77.0
                         Μ
## 16
         11.5
               72.0
                         Μ
## 17
         8.5
                59.0
## 18
         5.0
                62.0
                         F
## 19
         10.0
                72.0
                         М
## 20
         6.5
                66.0
                         F
## 21
          7.5
                64.0
## 22
          8.5
                67.0
                         М
```

```
10.5
                 73.0
## 23
                           Μ
## 24
           8.5
                 69.0
                           F
                 72.0
## 25
          10.5
                           М
          11.0
                 70.0
## 26
                           М
## 27
           9.0
                 69.0
                           М
## 28
          13.0
                 70.0
                           Μ
#b
summary(df)
       Shoesize
                         Height
                                        Gender
##
          : 5.000
                            :59.00
                                     Length:28
   Min.
                     Min.
  1st Qu.: 8.500
                                     Class :character
##
                     1st Qu.:65.75
## Median: 9.000
                     Median :69.50
                                     Mode : character
## Mean
          : 9.411
                     Mean
                            :68.57
## 3rd Qu.:10.500
                     3rd Qu.:71.25
                            :77.00
## Max.
          :13.000
                     Max.
# SHOESIZE: Mean
                 : 9.411
                   :68.57
# HEIGHT: Mean
#Yes, The Higher the height, the greater the shoesize.
#the factor levels below the actual values.
Months <- c("March", "April", "January", "November", "January",</pre>
            "September", "October", "September", "November", "August",
            "January", "November", "February", "May", "August",
            "July", "December", "August", "August", "September", "November", "February", "April")
factor_Months <- factor(Months)</pre>
factor_Months
##
   [1] March
                            January
                                                           September October
                  April
                                       November
                                                 January
  [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
#3. Then check the summary() of the months_vector and factor_months_vector. |
#Interpret the results of both vectors. Are they both equally useful in this case?
summary(Months)
##
      Length
                 Class
                            Mode
##
          24 character character
summary(factor_Months)
##
       April
                August December February
                                              January
                                                           July
                                                                    March
                                                                                 May
##
           2
                     4
                               1
                                          2
                                                    3
                                                              1
                                                                        1
   November
               October September
##
           5
                     1
```

```
#4.
factor_data <- c(1,4,3)

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

print(new_order_data)

## [1] <NA> <NA> <NA>
## Levels: East West North
```