Acosta-Worksheet3b

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```r
#1.
#a
Respondents <- c(seq(1,20))
Sex <- c(2,2,1,2,2,2,2,2,2,2,1,2,2,2,2,2,2,2,1,2)
FathersOccupation <- c(1,3,3,3,1,2,3,1,1,1,3,2,1,3,3,1,3,1,2,1)
Personsathome <- c(5,7,3,8,5,9,6,7,8,4,7,5,4,7,8,8,3,11,7,6)
Siblingsatschool <- c(6,4,4,1,2,1,5,3,1,2,3,2,5,5,2,1,2,5,3,2)
Typesofhouses <- c(1,2,3,1,1,3,3,1,2,3,2,3,2,2,3,3,3,3,3,2)

dframe <- data.frame(Respondents,Sex,FathersOccupation,Personsathome,Siblingsatschool,Typesofhouses)

#b
summary(dframe)
```

```
##   Respondents         Sex         FathersOccupation Personsathome
## Min.   : 1.00   Min.   :1.00   Min.   :1.00      Min.   : 3.0
## 1st Qu.: 5.75   1st Qu.:2.00   1st Qu.:1.00      1st Qu.: 5.0
## Median :10.50   Median :2.00   Median :2.00      Median : 7.0
## Mean   :10.50   Mean   :1.85   Mean   :1.95      Mean   : 6.4
## 3rd Qu.:15.25   3rd Qu.:2.00   3rd Qu.:3.00      3rd Qu.: 8.0
## Max.   :20.00   Max.   :2.00   Max.   :3.00      Max.   :11.0
## Siblingsatschool Typesofhouses
## Min.   :1.00     Min.   :1.0
## 1st Qu.:2.00     1st Qu.:2.0
## Median :2.50     Median :2.5
## Mean   :2.95     Mean   :2.3
## 3rd Qu.:4.25     3rd Qu.:3.0
## Max.   :6.00     Max.   :3.0
```

```r
#c
#NO
```

```r
#d
b <- subset(dframe[1:2, 1:6, drop = FALSE])
b
```

```
##   Respondents Sex FathersOccupation Personsathome Siblingsatschool
## 1           1   2                 1             5                6
## 2           2   2                 3             7                4
##   Typesofhouses
## 1             1
## 2             2
```

```
#e
b2 <- subset(dframe[c(3,5),c(2,4)])
b2
```

```
##   Sex Personsathome
## 3   1              3
## 5   2              5
```

```
#f
b3 <- dframe[c(6)]
type_houses <- b3
```

```
#g
b22 <- subset(dframe[c(3,11),c(2,3)])
b22
```

```
##    Sex FathersOccupation
## 3    1                 3
## 11   1                 3
```

```
#2.
bf = data.frame(Ints=integer(),
                Doubles=double(), Characters=character(),
                Logicals=logical(),
                Factors=factor(),
                stringsAsFactors=FALSE)
print("Structure of the empty dataframe:")
```

```
## [1] "Structure of the empty dataframe:"
```

```
print(str(bf))
```

```
## 'data.frame':    0 obs. of  5 variables:
##  $ Ints      : int
##  $ Doubles   : num
##  $ Characters: chr
##  $ Logicals  : logi
##  $ Factors   : Factor w/ 0 levels:
## NULL
```