Data frames in R.

Data frame subsets

There is a subset() function that allow us to retrieve a specific set of columns or drop a specific set of them. To illustrate it we will first create a simple Data frame.

```
df = data.frame(a =5:9, b = 6:10, c= 7:11)
print(df)

##    a    b    c
## 1    5    6    7
## 2    6    7    8
## 3    7    8    9
## 4    8    9    10
## 5    9    10    11
```

Then we can take for example columns "b" and "c" with the following code:

Another posible approach to obtain a data frame composed only of the columns "b" and "c" would to drop the column "a":

Summary statistics

There are many packages that allow us to obtain the summary statistics of a data frame. An example would be the fBasics package, which has the basicStats(dataFrame) function.

Another possibility is to use the do.call function in combination with a set of specific functions such as mean(), median(), sd()..., to obtain a specific set of summary statistics:

```
ss = do.call(data.frame, list(
   mean = sapply(df, mean),
   sd = sapply(df, sd),
   median = sapply(df, median),
   min = sapply(df, min),
```

```
max = sapply(df, max)
))
print(ss)
```

```
## v mean sd median min max
## a 7 1.581139 7 5 9
## b 8 1.581139 8 6 10
## c 9 1.581139 9 7 11
```