

MATH 542 | Assignment 2

Saket Choudhary

January 30, 2016

Problem 1

```
LengthCT <- c(75,85,91.6,95,NA,105.5,106)
Tb <- c(0,0,1,NA,0,0,0)
```

Average lengthCT of animals

```
mean(LengthCT, na.rm = TRUE)
```

```
## [1] 93.01667
```

Problem 2

```
Farm <- c(rep("MO",4),"LN","SE","QM")
Month <- c(11,7,7,NA,9,9,11)
Boar <- cbind(Farm,Month,LengthCT,Tb)
```

```
dim(Boar)
```

```
## [1] 7 4
```

dim gives the size(rows, columns) of the dataframe: 7×4

```
nr <- nrow(Boar)
nr
```

```
## [1] 7
```

nrow gives the number of rows in the dataframe: 7

```
nc <- ncol(Boar)
nc
```

```
## [1] 4
```

ncol gives the number of columns in the dataframe: 4

Problem 3

```
Year <- c(00,00,01,NA,03,03,02)
Sex <- c(1,2,2,2,1,2,2)
LengthClass <- rep(1,7)
Ecervi <- c(rep(0,3),NA,rep(0,3))
df <- data.frame(Farm,Month,Year,Sex,LengthClass,LengthCT,Ecervi,Tb)
df
```

```
##   Farm Month Year Sex LengthClass LengthCT Ecervi Tb
## 1  MO    11    0  1           1      75.0     0  0
## 2  MO     7    0  2           1      85.0     0  0
## 3  MO     7    1  2           1      91.6     0  1
## 4  MO    NA   NA  2           1      95.0     NA NA
## 5  LN     9    3  1           1        NA     0  0
## 6  SE     9    3  2           1     105.5     0  0
## 7  QM    11    2  2           1     106.0     0  0
```