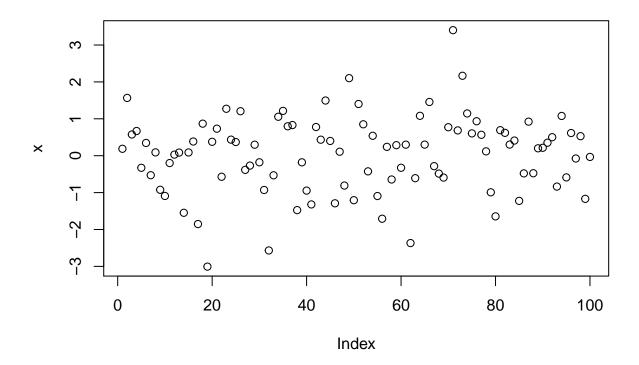
# Assignment #0 - SRT411

# Said Warsame 2019-02-15

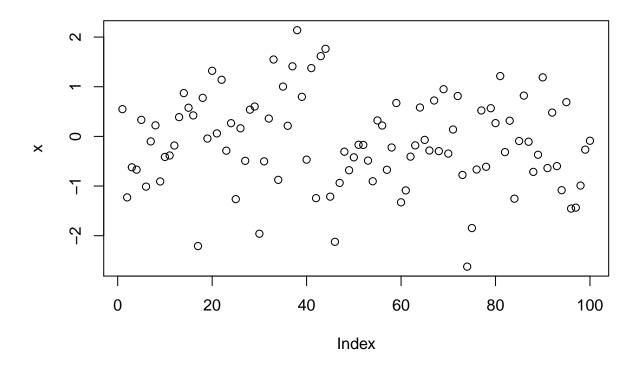
This is my RMarkdown document which holds my answers to the ToDo excercises from Torf's and Brauer's "A (very) short introduction to R" which can be found at this link "https://cran.r-project.org/doc/contrib/Torfs+Brauer-Short-R-Intro.pdf". My Github can be found at this link "https://github.com/swarsame/SRT411-Assignment-0".



help(sqrt)

### ToDo-6

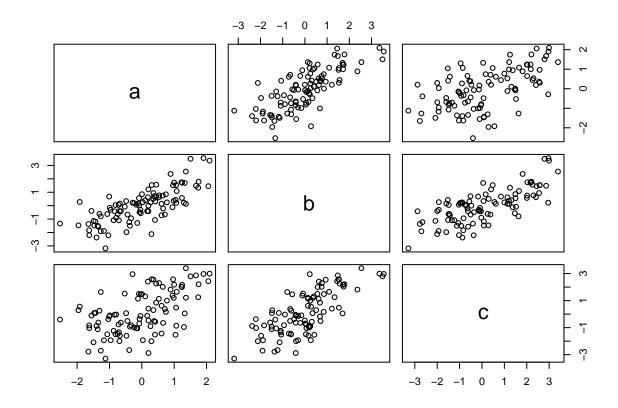
source("script.R")



```
P = seq(from=31, to=60, by=1)
## [1] 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53
## [24] 54 55 56 57 58 59 60
Q = matrix(P,nrow=6,ncol=5)
Q
##
        [,1] [,2] [,3] [,4] [,5]
## [1,]
               37
          31
                     43
                          49
                               55
## [2,]
          32
                38
                     44
                          50
                               56
## [3,]
          33
               39
                     45
                          51
                               57
## [4,]
                40
                          52
          34
                     46
                               58
## [5,]
          35
                41
                     47
                          53
                               59
## [6,]
          36
                42
                     48
                          54
                               60
```

```
x1 = rnorm(100)
x2 = rnorm(100)
```

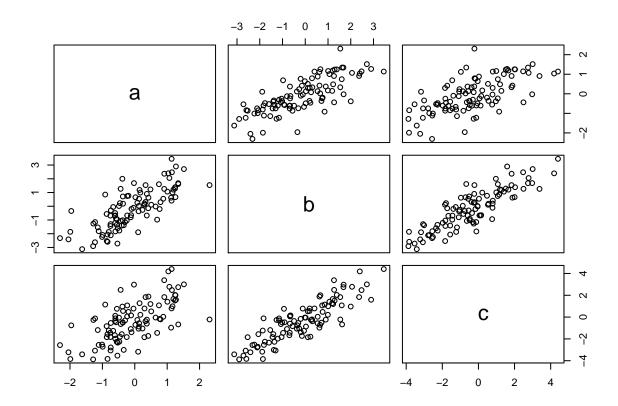
```
x3 = rnorm(100)
t = data.frame(a = x1, b = x1+x2, c = x1+x2+x3)
plot(t)
```



```
sapply(t, sd)
```

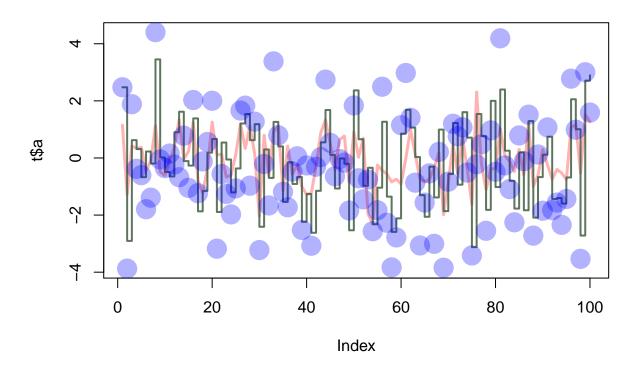
```
## a b c
## 1.034773 1.289289 1.599693
```

```
x1 = rnorm(100)
x2 = rnorm(100)
x3 = rnorm(100)
t = data.frame(a = x1, b = x1+x2, c = x1+x2+x3)
plot(t)
```



```
## a b c
## 0.8924561 1.4623377 1.8516434

plot(t$a, type="1", ylim=range(t),lwd=3, col=rgb(1,0,0,0.3))
lines(t$b, type="s", lwd=2,col=rgb(0.3,0.4,0.3,0.9))
points(t$c, pch=20, cex=4,col=rgb(0,0,1,0.3))
```



```
d = data.frame(a = c(1,2,4,8,16,32), g = c(2,4,8,16,32,64), x = c(3,6,12,24,48,96))
write.table(d, file="tst1.txt", row.names=FALSE)
d2 = read.table(file="tst1.txt", header=TRUE)
write.table(d2$g*5, file="tst2.txt", row.names=FALSE)
```

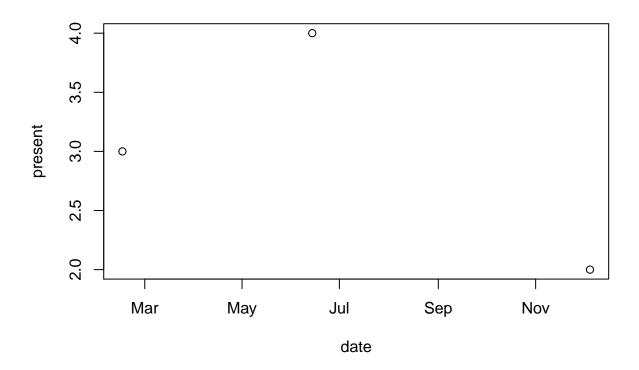
#### ToDo-11

```
vec9=rnorm(100)
mean(sqrt(vec9))
```

## Warning in sqrt(vec9): NaNs produced

## [1] NaN

```
date=strptime( c("20190215","20191205","20190614"),format="%Y%m%d")
present=c(3,2,4)
plot(date,present)
```



```
vec14=seq(from=1, to=100, by=1)
a=c()
for(i in 1:100)
{
  if(vec14[i]<5)</pre>
    a[i]=vec14[i]*5;
  }
  else if(vec14[i]>90)
  {
    a[i]=vec14[i]*10;
  }
  else
  {
    a[i]=vec14[i]*0.1;
  }
}
                    10.0
                                                                                  1.0
##
     [1]
             5.0
                           15.0
                                   20.0
                                            0.5
                                                   0.6
                                                           0.7
                                                                   0.8
                                                                          0.9
##
                    1.2
    [11]
             1.1
                            1.3
                                    1.4
                                            1.5
                                                   1.6
                                                           1.7
                                                                   1.8
                                                                          1.9
                                                                                  2.0
##
    [21]
             2.1
                    2.2
                            2.3
                                    2.4
                                            2.5
                                                   2.6
                                                           2.7
                                                                   2.8
                                                                          2.9
                                                                                  3.0
    [31]
             3.1
                    3.2
                            3.3
                                    3.4
                                           3.5
                                                   3.6
                                                           3.7
                                                                  3.8
                                                                          3.9
                                                                                  4.0
##
```

```
5.0
## [41]
         4.1
             4.2
                  4.3
                         4.4
                               4.5
                                    4.6
                                        4.7
                                               4.8
                                                     4.9
## [51]
         5.1 5.2 5.3
                         5.4
                               5.5
                                   5.6 5.7
                                               5.8
                                                     5.9
                                                          6.0
## [61]
              6.2 6.3
                               6.5
                                                          7.0
         6.1
                         6.4
                                    6.6
                                          6.7
                                               6.8
                                                     6.9
## [71]
         7.1
              7.2
                    7.3
                         7.4
                               7.5
                                    7.6
                                          7.7
                                               7.8
                                                     7.9
                                                          8.0
## [81]
         8.1
              8.2
                  8.3
                         8.4
                               8.5
                                    8.6
                                          8.7
                                               8.8
                                                     8.9
                                                          9.0
## [91] 910.0 920.0 930.0 940.0 950.0 960.0 970.0 980.0 990.0 1000.0
```

```
fx= function(arg1,arg2 )
{
   vec14[i]=arg1[i];
   for(i in length(vec14))
   {
   }
}
```

```
fx <- function(vec14) {
    vec14 + seq_along(vec14)
}</pre>
```