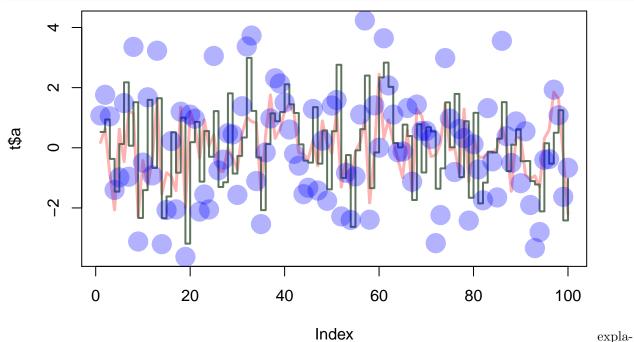
# Assignment0

```
1) TODO
((2018-2014)/(2014-1989))*100
## [1] 16
  2) TODO
ok <-(2018 - 2014)
mk <- (2014 - 1989)
jk <- ((ok/mk)*100)
## [1] 16
  3) TODO
b = c(4,5,8,11)
sum(b)
## [1] 28
  4) TODO
f = rnorm(100)
plot(f)
                                         0
                        0
                          0
     ^{\circ}
                                                    0
                    0
                                             0
                                                                 0
                                               0
               0
              0
                      000
                                                    000
                                                                   ∞ ° ° °
                                                          0
                                                                 0
                                                      0
                                                                              00
                                                         0
                                                                             0
                                       00
                                                                        0
                   0
                                                                         0
     7
                                                                  0
                                              0
             0
     က
            0
                         20
                                       40
                                                    60
                                                                  80
                                                                               100
                                            Index
  5) TODO
help (sqrt)
  6) TODO
P= seq(from= 31, to= 60)
Q= matrix(data= P, ncol=5, nrow=6)
```

```
Q
##
        [,1] [,2] [,3] [,4] [,5]
## [1,]
          31
               37
                     43
## [2,]
          32
               38
                               56
                     44
                          50
## [3,]
          33
               39
                     45
                          51
                               57
## [4,]
               40
                     46
                          52
                               58
          34
## [5,]
          35
               41
                     47
                          53
                               59
## [6,]
                               60
          36
                42
                     48
                          54
  7) TODO
x1= rnorm(100)
x2 = rnorm(100)
x3= rnorm(100)
t = data.frame(a = x1, b=(x1+x2), c= (x1+x2+x3))
plot(t)
                              -3 -2 -1 0 1
                                                 2
              a
                                    ૺૺૺૺૺૺૺૺૺૺૺૺ
                                                                                   7
က
                                         b
T
က
                                                                   C
                                                                                  0
                                                                                  7
                                                             -2
                                                                        2
              0
                                                                   0
sd(t$a)
## [1] 0.997464
sd(t$b)
## [1] 1.315992
sd(t$c)
## [1] 1.801238
  8) TODO
plot(t$a, type="l", ylim=range(t),
   lwd=3, col=rgb(1,0,0,0.3))
```



nation: rgb stands for red, green and blue. This is used to identify colour in the graph.

#### 9) TODO

# sqrt (rnorm(100))

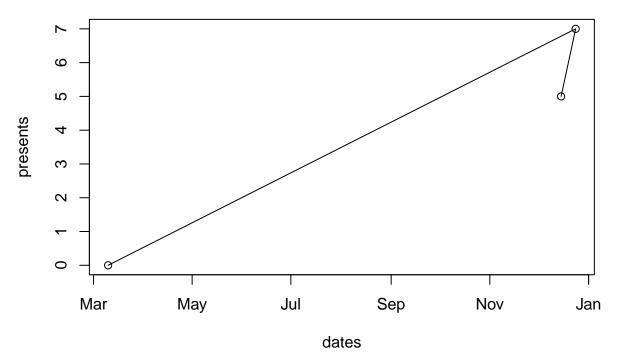
## Warning in sqrt(rnorm(100)): NaNs produced

```
[1] 0.6840935 0.7835809
##
                                     NaN 1.0674231 0.8086578 1.0160277
     [8] 1.1080336
##
                          NaN
                                     NaN
                                                                     NaN 0.6239551
                                                NaN
                                                          NaN
##
    [15]
                NaN
                          NaN
                                     NaN
                                                NaN 0.7056253
                                                                     NaN 1.2984173
    [22]
##
               NaN
                          NaN
                                     NaN 0.4562321
                                                                     NaN
                                                          NaN
                                                                                NaN
##
    [29] 1.4113217
                          NaN 0.3867486
                                                NaN 1.1269338
                                                                     NaN 1.3023528
##
    [36]
                NaN
                          NaN 0.7602840
                                                NaN
                                                          NaN
                                                                     NaN
                                                                                NaN
    [43] 0.8410379 0.3377242 0.2663871 1.0702361
                                                                     NaN 0.5709774
##
    [50] 0.5882289
                          NaN
                                     NaN 0.5931399 0.1213798
                                                                     NaN 0.8084115
##
    [57]
                NaN
                          NaN 1.1681653 1.0084419 0.6149469
                                                                     NaN 0.4573452
    [64] 0.7992273
                                                NaN 0.8889342 0.9324759
##
                          NaN
                                     NaN
##
    [71] 0.1623330 1.0481616
                                     NaN
                                                NaN
                                                          NaN 0.1716548
                                                                                NaN
##
    [78]
                          NaN 0.4283417 0.7421939
                                                          NaN 0.1519946
                NaN
                                                                                NaN
##
    [85]
               NaN 1.0391393
                                     NaN 1.1150381
                                                          NaN
                                                                     NaN 1.1225860
##
    [92]
               NaN
                          NaN 1.2951793 0.4691251 0.5581713 0.6998251 0.2771367
    [99]
               NaN
##
```

When sqrt is executed, NaNs is the output. This stands for not a number.

#### 10) TODO

```
dates= strptime(c("20190310", "20191224","20191215"),format="%Y%m%d")
presents = c(0,7,5)
plot(dates,presents)
lines(dates,presents)
```



## 11) TODO

```
k<- read.table(file="tst1.txt" , header =TRUE)
mytest <- k$g * 5
write.table (mytest, file="tst2.txt")</pre>
```

### 12) TODO

```
vars = seq(from=1, to=100)
s = c()

for(i in 1:length(vars))
{
    if(vars[i] < 5) {
        s[i] <- (vars[i] *10)
    }else if (vars[i] > 90){
        s[i] <- (vars[i] *10)
    }else{
        s[i] = (vars[i]*0.1)
    }
}</pre>
```

```
10.0
                    20.0
                            30.0
                                    40.0
                                             0.5
                                                     0.6
                                                                     0.8
                                                                             0.9
                                                                                     1.0
##
     [1]
                                                             0.7
##
    [11]
             1.1
                     1.2
                             1.3
                                     1.4
                                             1.5
                                                     1.6
                                                             1.7
                                                                     1.8
                                                                             1.9
                                                                                     2.0
                             2.3
##
    [21]
             2.1
                     2.2
                                     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
##
    [41]
             4.1
                     4.2
                             4.3
                                     4.4
                                             4.5
                                                             4.7
                                                                     4.8
                                                                             4.9
                                                                                     5.0
                                                     4.6
##
    [51]
             5.1
                     5.2
                             5.3
                                     5.4
                                             5.5
                                                     5.6
                                                             5.7
                                                                     5.8
                                                                             5.9
                                                                                     6.0
                             6.3
##
    [61]
             6.1
                     6.2
                                     6.4
                                             6.5
                                                     6.6
                                                             6.7
                                                                     6.8
                                                                             6.9
                                                                                     7.0
    [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
           910.0
##
    [91]
                   920.0
                           930.0
                                   940.0
                                           950.0 960.0
                                                          970.0
                                                                   980.0
                                                                          990.0 1000.0
```

14) TODO

```
functions = function(argv)
{
    s2=c()
    for(i in 1:length(argv))
    {
        if(argv[i] < 5) {
            s2[i] <- (argv[i] *10)
        }else if (argv[i] > 90){
            s2[i] <- (argv[i] *10)
        }else{
            s2[i] = (argv[i]*0.1)
        }
    }
    s2
}
functions(argv = c(7:30))</pre>
```

## [1] 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 ## [18] 2.4 2.5 2.6 2.7 2.8 2.9 3.0