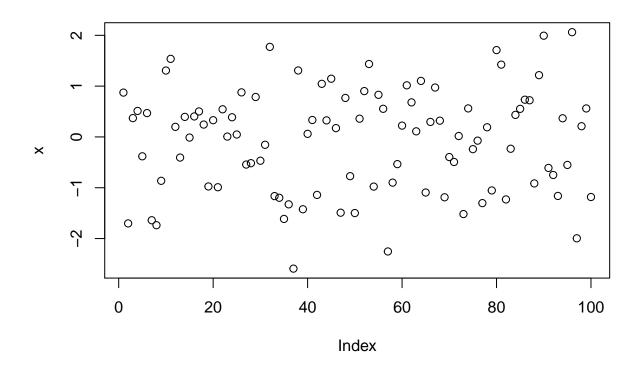
SRT411 Assignment 0

GitHub Documents

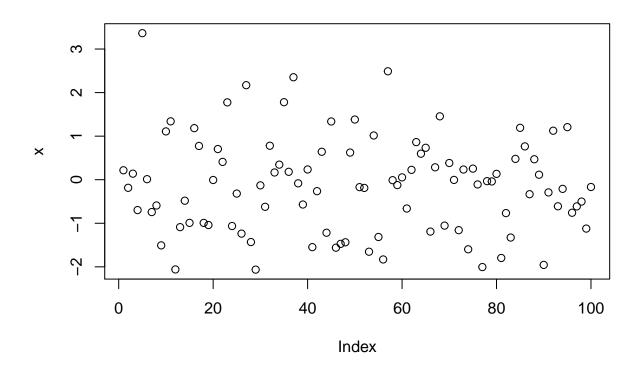
This is an R Markdown format used for publishing markdown documents to GitHub. When you click the **Knit** button all R code chunks are run and a markdown file (.md) suitable for publishing to GitHub is generated.

```
##3.1
(2014-2016)/(2014-1993)*100
## [1] -9.52381
##3.2
startyear = 2016
DOB = 1993
a = 2014-startyear
b = 2014-D0B
a/b*100
## [1] -9.52381
##3.4
b=c(4,5,8,11)
sum(x=b)
## [1] 28
##3.5
x=rnorm(100)
plot(x)
```

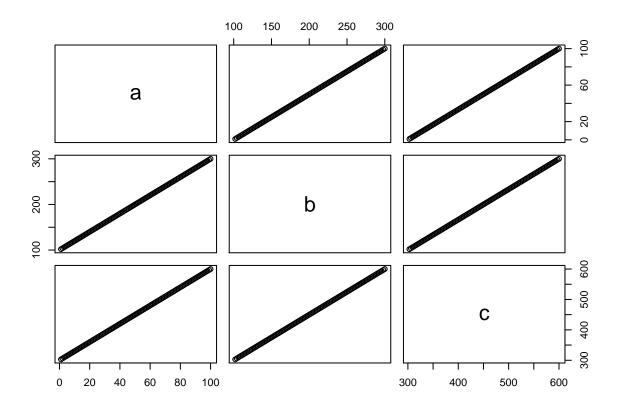


```
##4
help(sqrt)

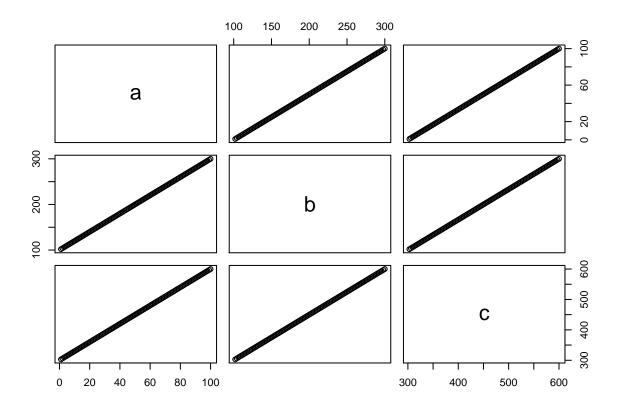
## starting httpd help server ... done
##5
source("firstscript.R")
```



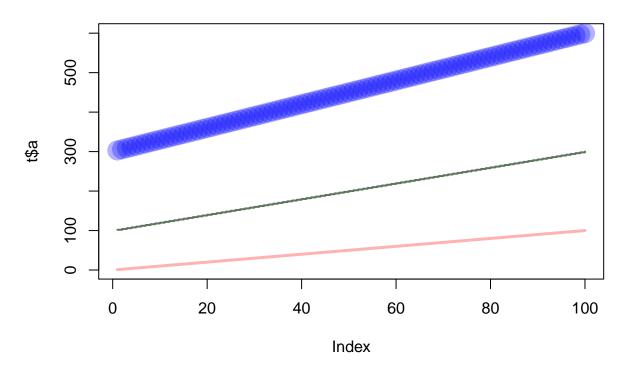
```
##6.2
P = c(seq(from = 31, to = 60, by = 1))
Q = matrix(data = P, ncol = 5, nrow = 6)
Q
        [,1] [,2] [,3] [,4] [,5]
##
## [1,]
          31
                37
                     43
                          49
                                55
## [2,]
          32
                38
                     44
                          50
                                56
## [3,]
          33
                39
                     45
                          51
                                57
## [4,]
          34
                40
                     46
                          52
                                58
## [5,]
          35
                41
                     47
                                59
                          53
## [6,]
          36
                42
                     48
                          54
                                60
##6.3
source("secondscript.R")
```



##7
source("secondscript.R")



```
plot(t$a, type="l", ylim=range(t), lwd=3, col=rgb(1,0,0,0.3))
lines(t$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))
```



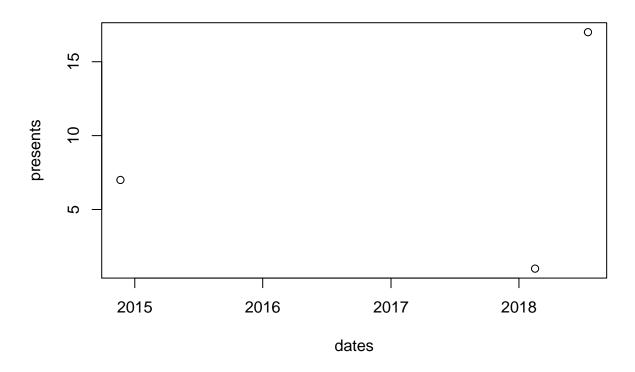
```
##8
d2 = read.table(file="tst1.txt",header=TRUE)
d2$g*5

## [1] 10 20 40 80 160 320

##9
sqrt(mean(rnorm(100)))

## [1] 0.2544068

##10.2
dates = c(strptime(c("20141121","20180216","20180717"),format="%Y%m%d"))
presents = c(7,1,17)
plot(dates,presents)
```



```
##11.2
vec1 = 1:100
for(i in 1:100)
  if (vec1[i] < 5 | vec1[i] > 90)
    vec1[i] = vec1[i] * 10
  } else
    vec1[i] = vec1[i] * 0.1
  }
}
vec1
     [1]
            10.0
                    20.0
                           30.0
                                   40.0
                                                                                   1.0
##
                                            0.5
                                                    0.6
                                                           0.7
                                                                   0.8
                                                                           0.9
                                                           1.7
##
    [11]
             1.1
                     1.2
                            1.3
                                    1.4
                                            1.5
                                                    1.6
                                                                           1.9
                                                                                   2.0
                                                                   1.8
##
    [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
##
    [41]
             4.1
                     4.2
                            4.3
                                    4.4
                                            4.5
                                                    4.6
                                                            4.7
                                                                   4.8
                                                                           4.9
                                                                                   5.0
##
    [51]
             5.1
                     5.2
                            5.3
                                    5.4
                                            5.5
                                                    5.6
                                                           5.7
                                                                   5.8
                                                                           5.9
                                                                                   6.0
    [61]
             6.1
                     6.2
                             6.3
                                            6.5
                                                            6.7
                                                                           6.9
                                                                                   7.0
##
                                    6.4
                                                    6.6
                                                                   6.8
             7.1
                     7.2
                                            7.5
                                                            7.7
                                                                           7.9
##
    [71]
                            7.3
                                    7.4
                                                    7.6
                                                                   7.8
                                                                                   8.0
             8.1
                     8.2
                             8.3
                                    8.4
                                            8.5
                                                    8.6
                                                            8.7
                                                                   8.8
                                                                           8.9
    [81]
           910.0
                  920.0
                          930.0
                                  940.0
                                          950.0
                                                 960.0
                                                         970.0
                                                                 980.0
                                                                         990.0 1000.0
##
    [91]
##11.3
vec=1:100
```

```
func = function(arg1)
  for(i in 1:length(arg1))
    if (arg1[i] < 5 | arg1[i] > 90)
     arg1[i] = arg1[i] * 10
    } else
     arg1[i] = arg1[i] * 0.1
    }
  }
  return (arg1)
func(arg1=vec)
##
     [1]
           10.0
                 20.0
                        30.0
                               40.0
                                       0.5
                                              0.6
                                                     0.7
                                                            0.8
                                                                   0.9
                                                                          1.0
##
    [11]
           1.1
                  1.2
                        1.3
                                1.4
                                       1.5
                                              1.6
                                                     1.7
                                                            1.8
                                                                   1.9
                                                                          2.0
##
   [21]
           2.1
                         2.3
                                       2.5
                  2.2
                                2.4
                                              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
                                                                   6.9
## [61]
            6.1
                  6.2
                         6.3
                                6.4
                                       6.5
                                              6.6
                                                     6.7
                                                            6.8
                                                                          7.0
## [71]
           7.1
                  7.2
                         7.3
                                7.4
                                       7.5
                                              7.6
                                                     7.7
                                                            7.8
                                                                   7.9
                                                                          8.0
                                                                          9.0
## [81]
            8.1
                  8.2
                         8.3
                                8.4
                                       8.5
                                              8.6
                                                     8.7
                                                            8.8
                                                                   8.9
## [91] 910.0 920.0 930.0 940.0 950.0 960.0 970.0 980.0 990.0 1000.0
```