SRT411A0

Introduction

In this assignment, you were to read the document "A (very) Short Introduction to R" and complete all 14 of the "To-Do" Tasks that were at the end of each section. Then make a report using RMarkdown and publish it on GitHub.

Task 1

```
((2015-2014)/(2014-1997))*100
## [1] 5.882353
```

Task 2

```
a <- 2015-2014
b <- 2014-1997
c <- 100
a/b *c
```

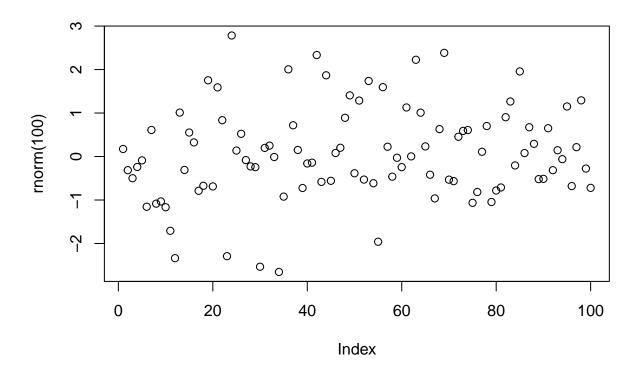
[1] 5.882353

Task 3

```
vector <- c(4, 5, 8, 11)
sum(vector)
## [1] 28</pre>
```

Task 4

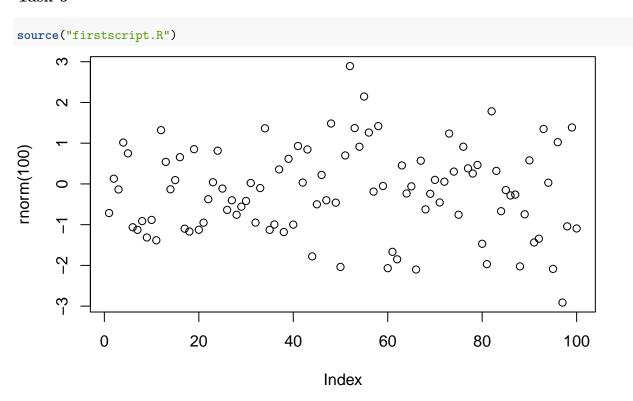
```
plot(rnorm(100))
```



Task 5

help(sqrt)

Task 6



Task 7

```
P = seq(from = 31, to = 60, by = 1)

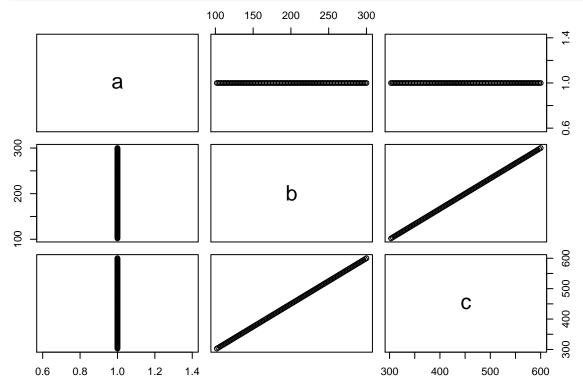
Q = matrix(P, ncol = 5, nrow = 6)

P
```

[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

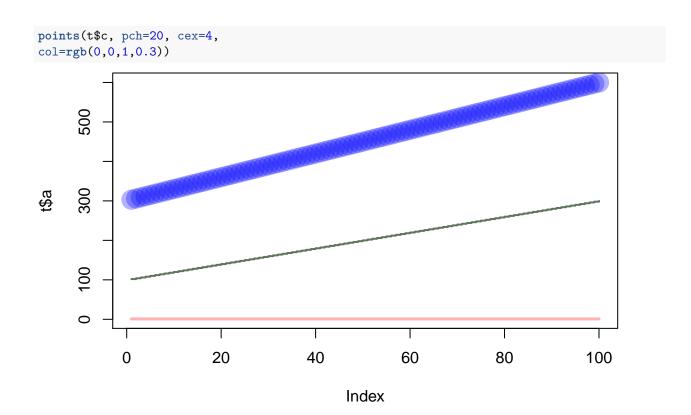
Task 8

```
x1 = seq(from = 1, to = 100, by = 1)
x2 = seq(from = 101, to = 200, by = 1)
x3 = seq(from = 201, to = 300, by = 1)
t = data.frame(a = 1, b = x1 + x2, c = x1 + x2 + x3)
plot(t)
```



Task 9

```
x1 = seq(from = 1, to = 100, by = 1)
x2 = seq(from = 101, to = 200, by = 1)
x3 = seq(from = 201, to = 300, by = 1)
t = data.frame(a = 1, b = x1 + x2, c = x1 + x2 + x3)
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))
```



Task 10

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

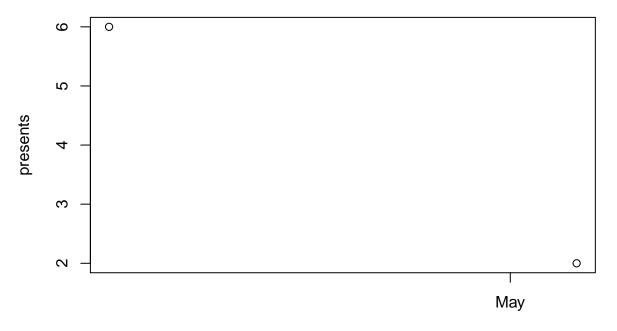
Task 11

```
sqrt(mean(rnorm(100)))
```

[1] 0.3208569

Task 12

```
date <- strptime( c("22052017", "25122016"), format = "%d%m%Y")
presents <- c(2, 6)
plot(date, presents)</pre>
```



date

Task 13

```
vector \leftarrow seq(from = 1, to = 100, by = 1)
s=c()
for(i in 1:100)
{
  if(vector[i]<5)</pre>
  {
    s[i]=vector[i]*5;
  else if(vector[i]>90)
    s[i]=vector[i]*10;
  }
  else
  {
    s[i]=vector[i]*0.1;
  }
}
s
##
     [1]
             5.0
                   10.0
                           15.0
                                   20.0
                                           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
                     2.2
                            2.3
                                    2.4
                                            2.5
                                                                   2.8
                                                                           2.9
##
                                                   2.6
                                                           2.7
                                                                                  3.0
##
    [31]
             3.1
                     3.2
                            3.3
                                    3.4
                                            3.5
                                                   3.6
                                                           3.7
                                                                   3.8
                                                                          3.9
                                                                                  4.0
                                                                          4.9
##
    [41]
             4.1
                     4.2
                            4.3
                                    4.4
                                            4.5
                                                   4.6
                                                           4.7
                                                                   4.8
                                                                                  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
                                    6.4
                                            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
                                            8.5
                                                                           8.9
##
    [81]
             8.1
                     8.2
                            8.3
                                    8.4
                                                   8.6
                                                           8.7
                                                                   8.8
                                                                                  9.0
          910.0 920.0 930.0 940.0 950.0 960.0 970.0 980.0 990.0 1000.0
##
    [91]
```

Task 14

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

Task 15

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

Resources

https://www.dataquest.io/blog/how-to-share-data-science-portfolio/