

Assignment 0 SRT411

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This is assignment 0 for SRT 411. This document shows the code and solutions for the TODO sections of the following pdf.

<https://cran.r-project.org/doc/contrib/Torfs+Brauer-Short-R-Intro.pdf>

TODO #1

```
((2014-2017)/(2014-1992))*100
```

```
## [1] -13.63636
```

TODO #2

```
startdate = 2014-2017
birthdate = 2014-1992
lifespent = startdate/birthdate
amount=lifespent * 100
amount
```

```
## [1] -13.63636
```

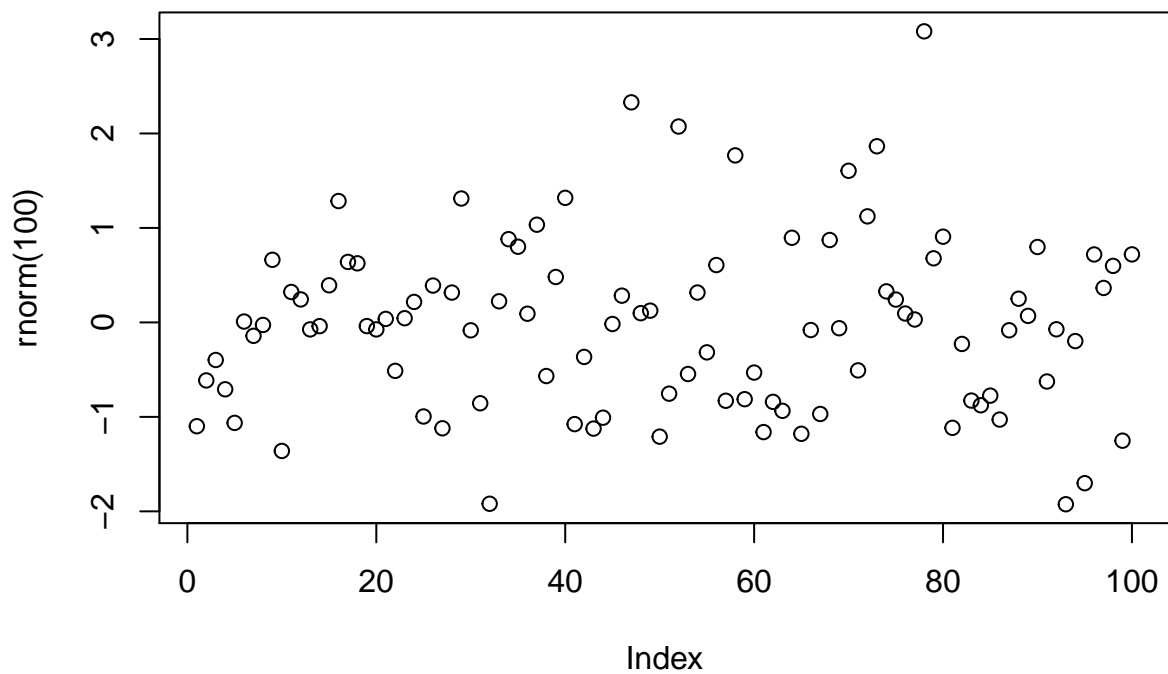
TODO #3

```
vec = c(4,5,8,11)
sum(vec)
```

```
## [1] 28
```

TODO #4

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



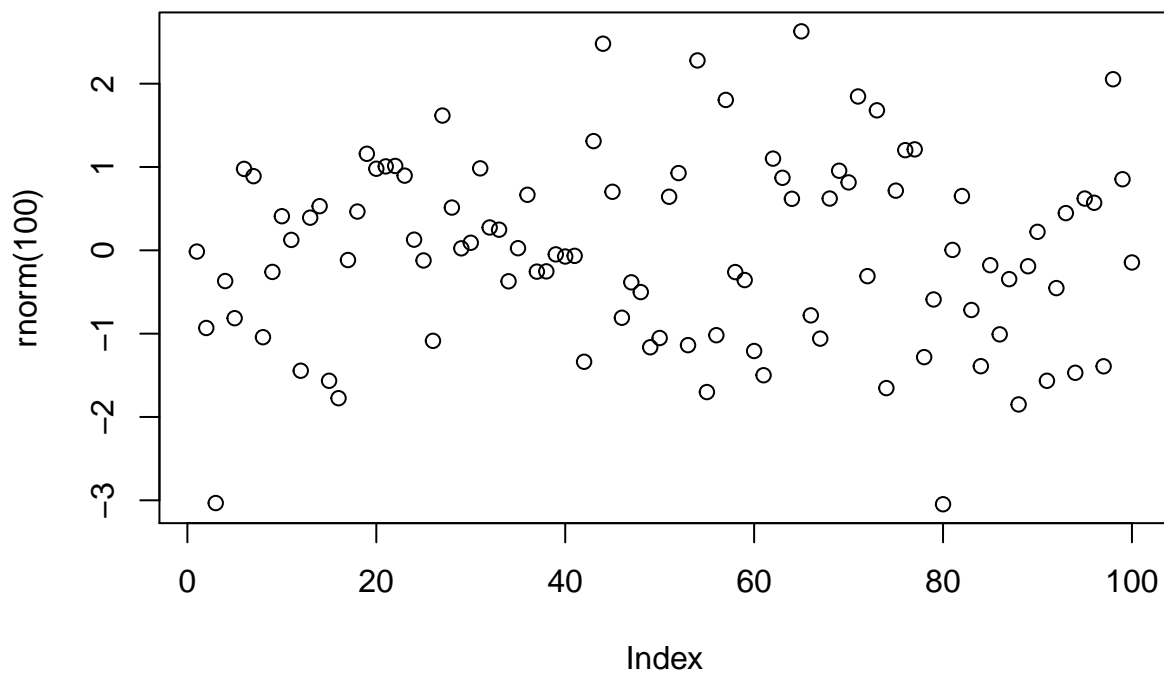
TODO #5

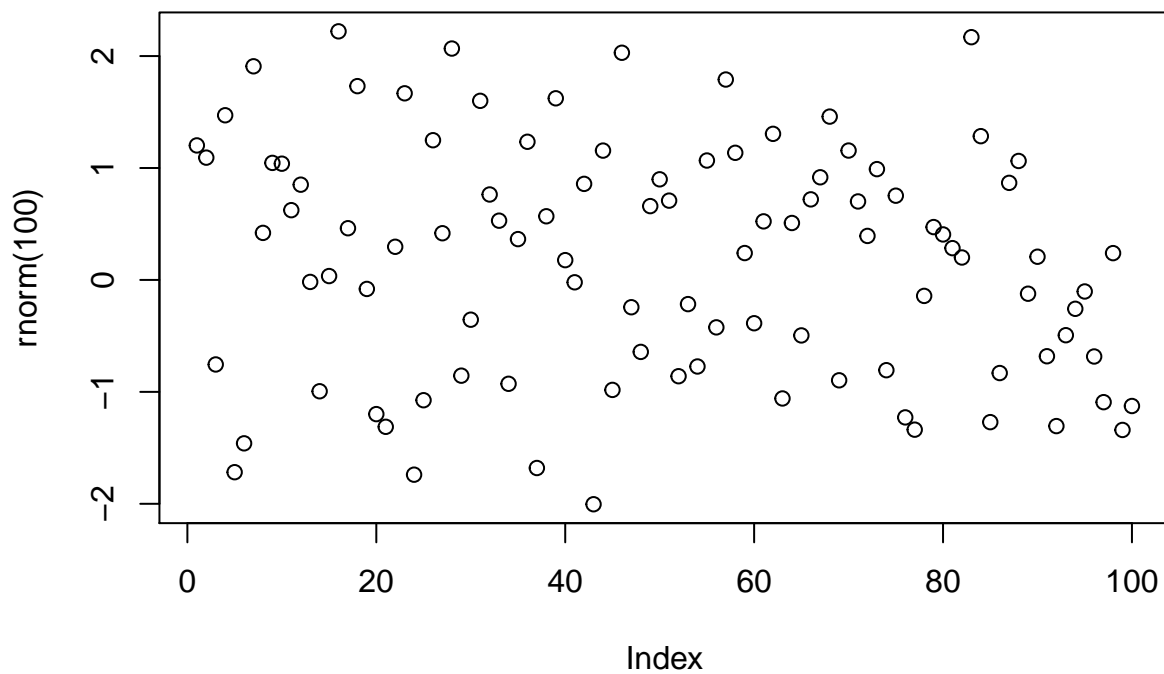
```
help(sqrt)
```

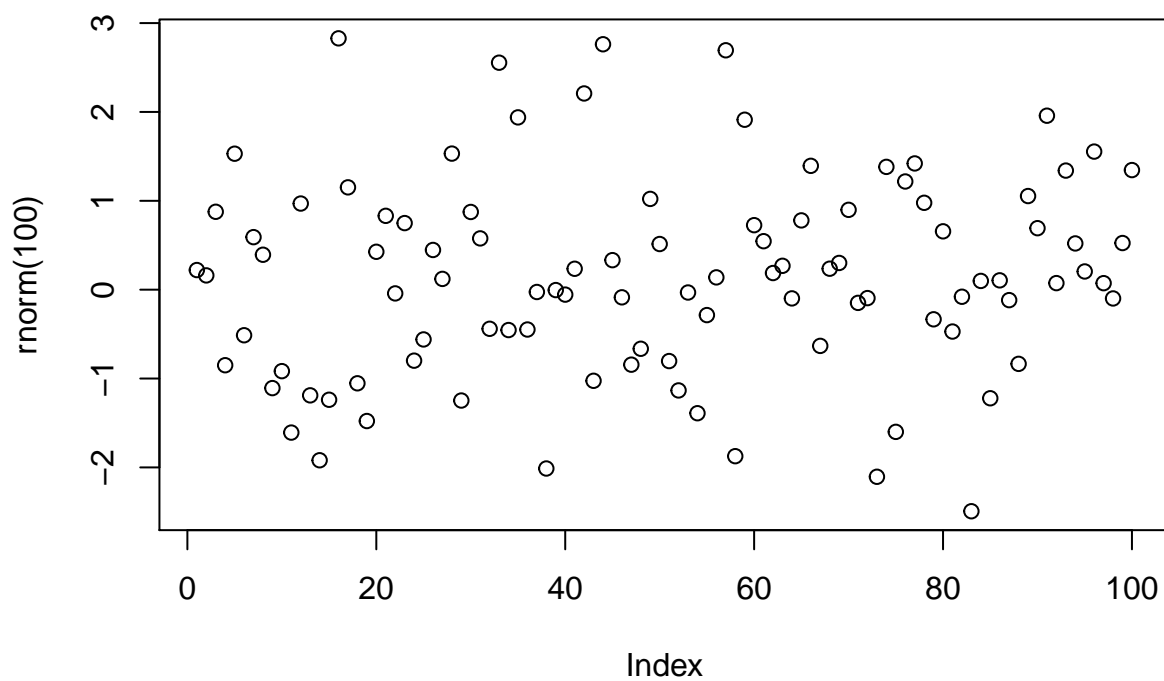
```
## starting httpd help server ... done
```

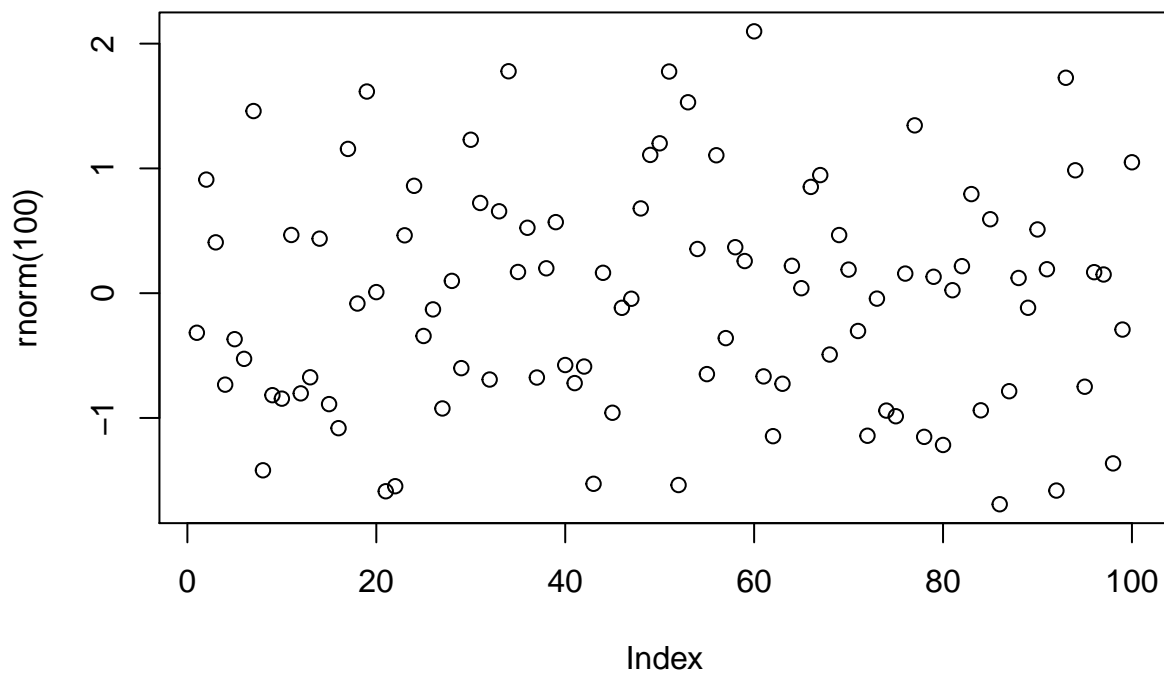
TODO #6

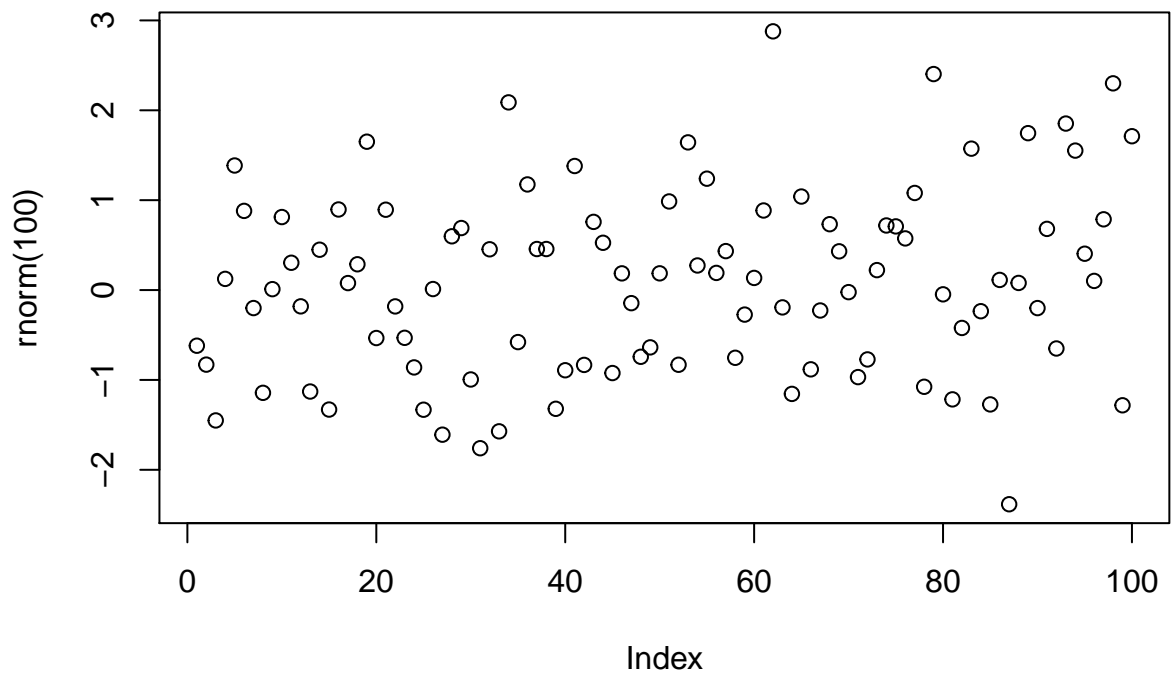
```
for(i in 1:7){  
  source("firstscript.R")  
}
```

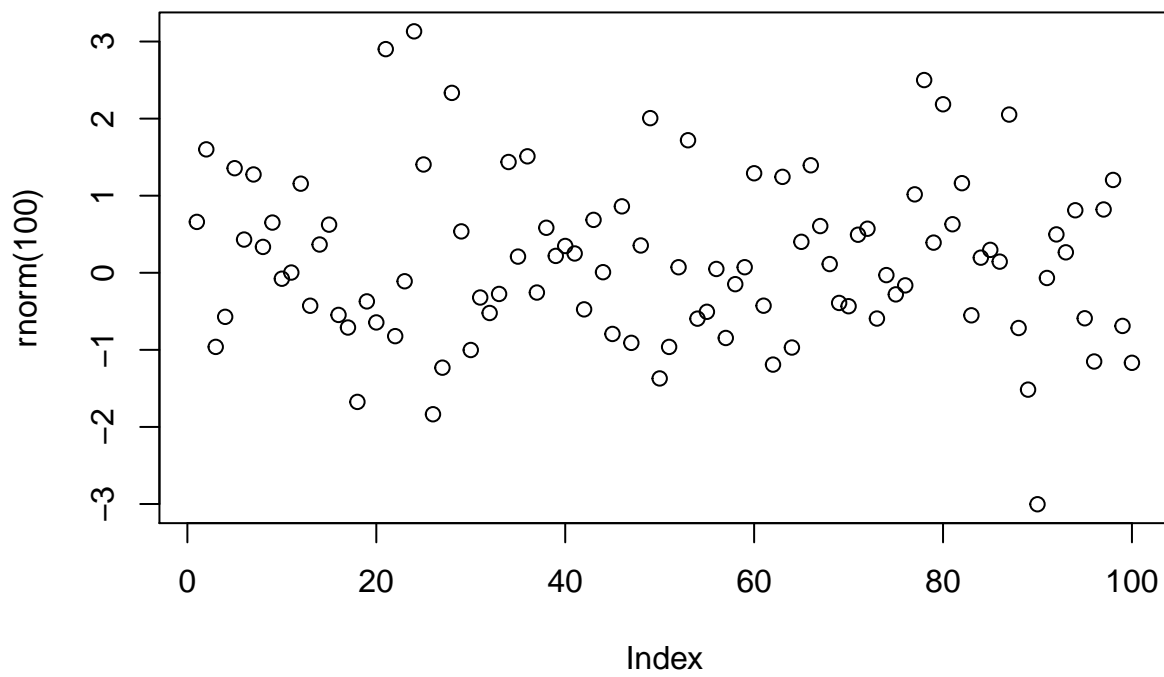


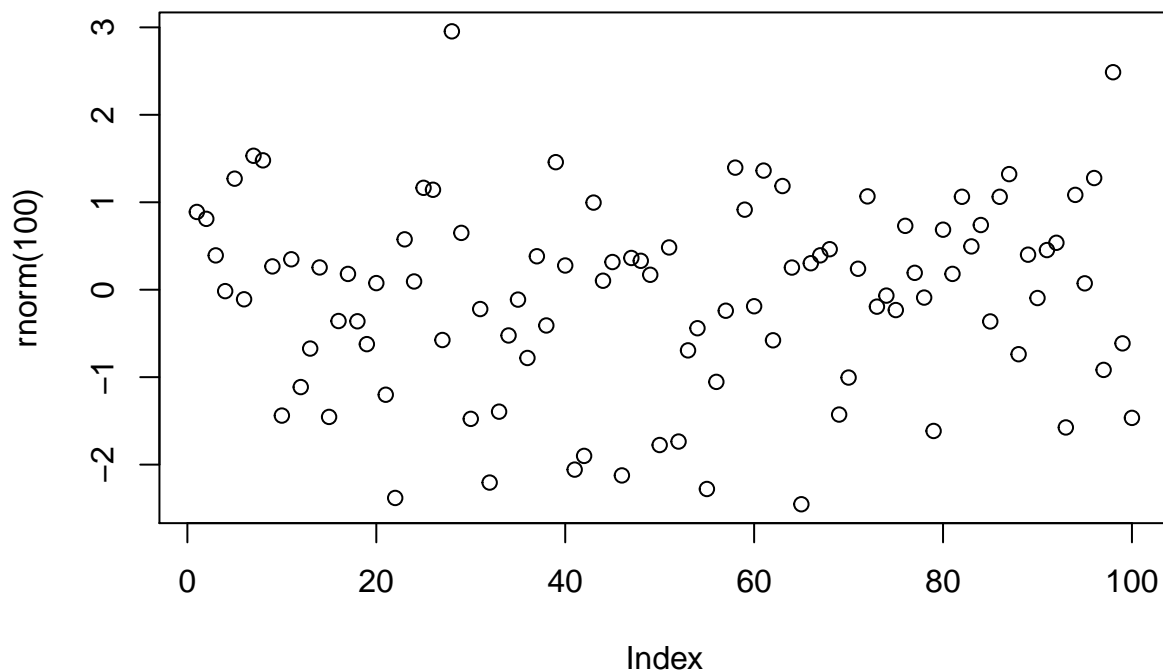












TODO #7

```
P = seq(from=31, to=60, by=1)
Q = matrix(data=P, ncol=5, nrow=6)
P
```

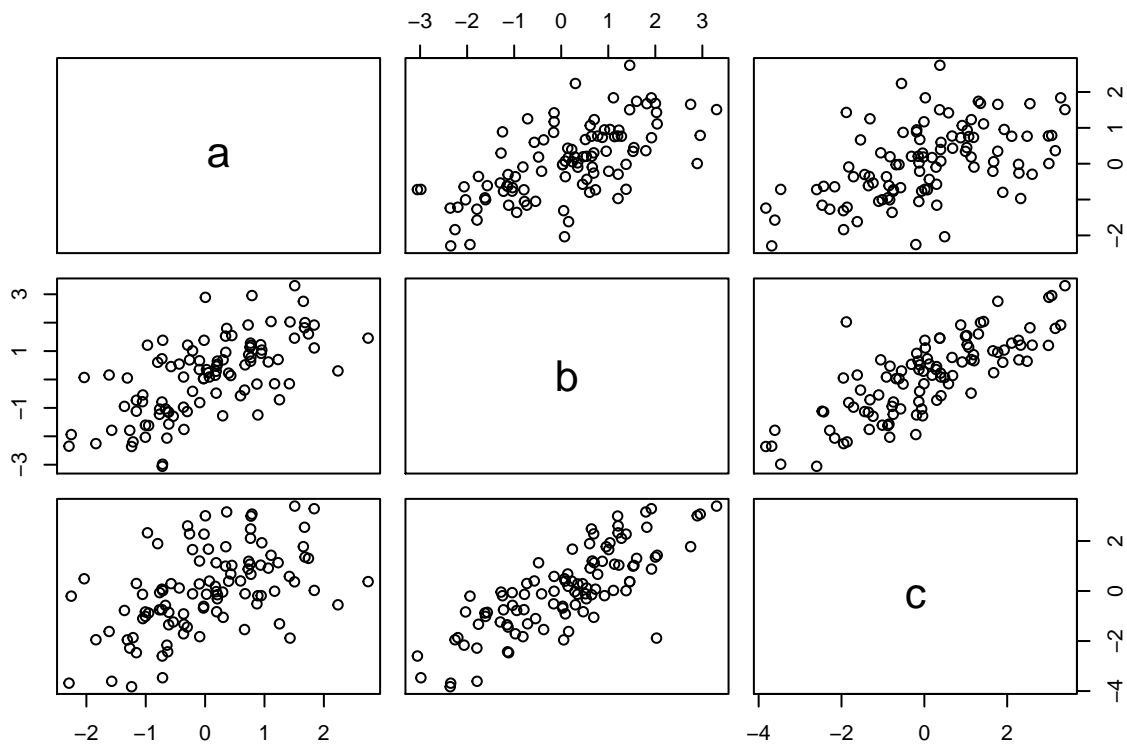
```
## [1] 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53
## [24] 54 55 56 57 58 59 60
```

```
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  53  59
## [6,]  36  42  48  54  60
```

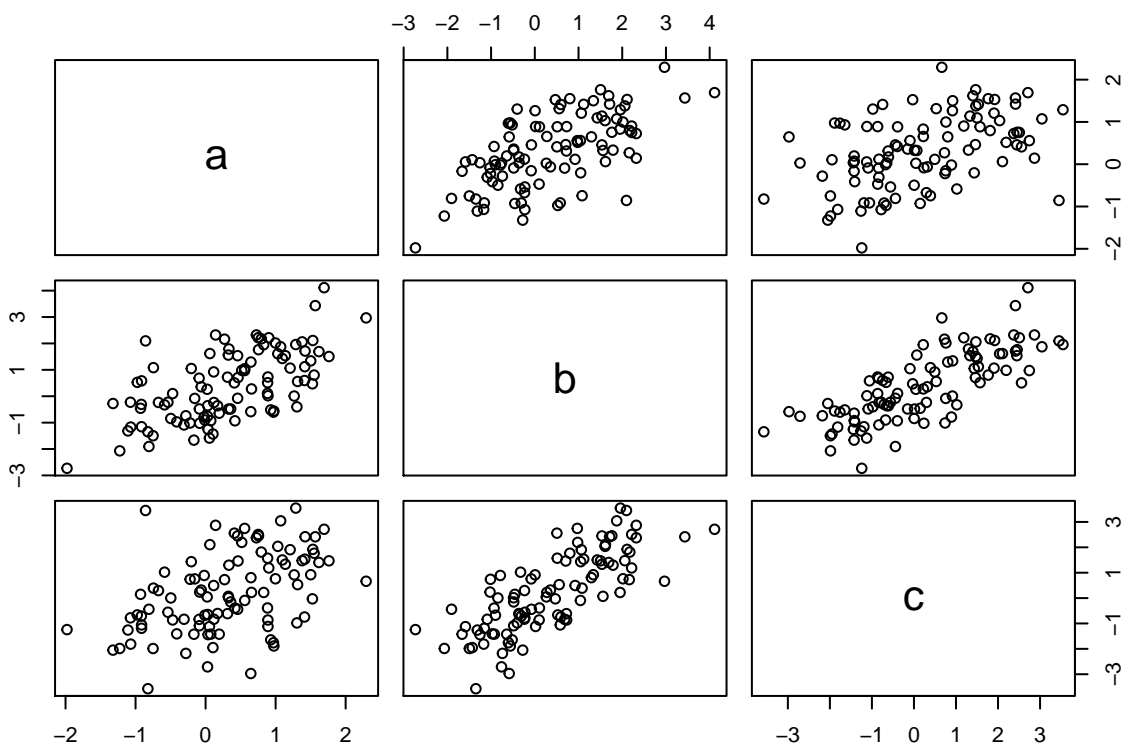
TODO #8

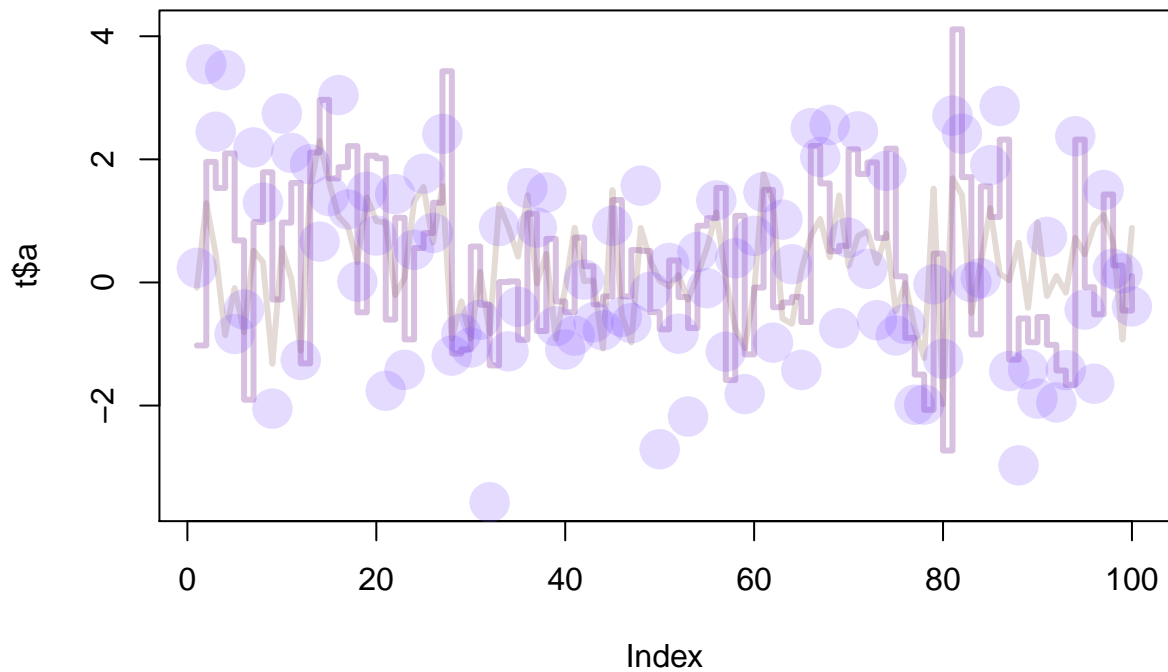
```
source("secondscript.R")
```



TODO #9

```
source("secondscriptaddition.R")
```





TODO #10

```
source("thirdscript.R")
```

TODO #11

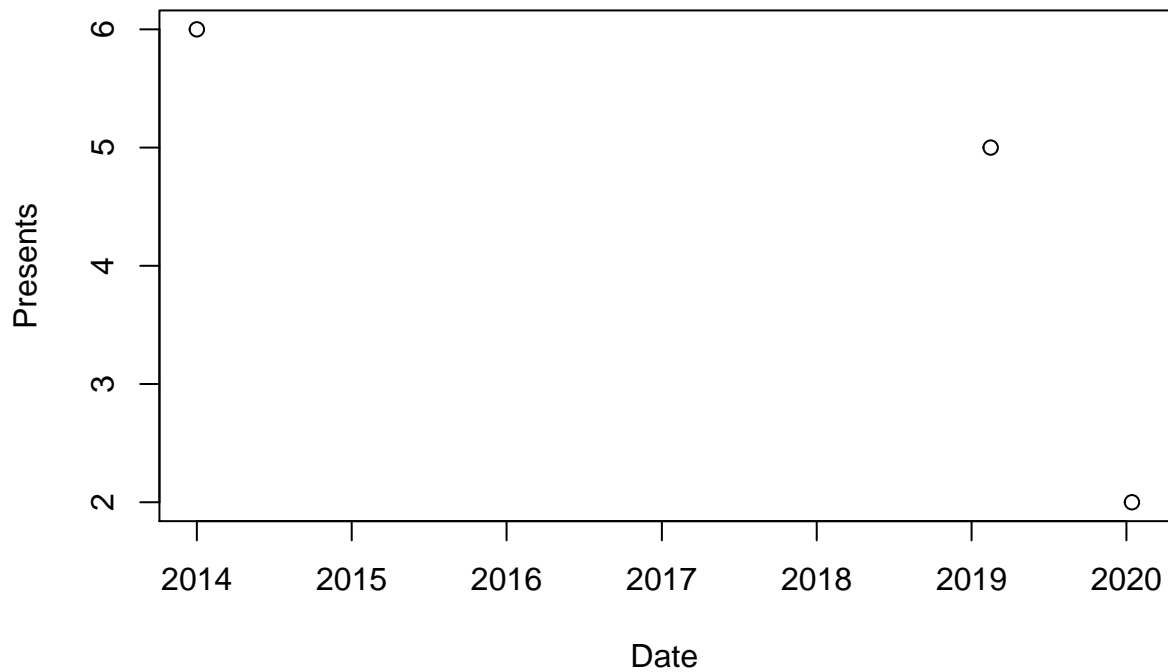
```
nums = c(rnorm(100))
mean(sqrt(nums))
```

```
## Warning in sqrt(nums): NaNs produced
```

```
## [1] NaN
```

TODO #12

```
date = strptime(c("20190215", "20140101", "20200114"), format = "%Y%m%d")
exp = c(5, 6, 2)
plot(date, exp, xlab="Date", ylab="Presents")
```



TODO #13

```
loop = seq(1:100)
```

```
Vec = c()
```

```
for(i in loop){
```

```
  if(i<5 || i>90){
```

```
    Vec[i]=loop[i]*10
```

```
  }
```

```
  else
```

```
  {
```

```
    Vec[i]=loop[i]*0.1
```

```
  }
```

```
}
```

```
print(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   2.2   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   6.4   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
##  [91] 910.0 920.0 930.0 940.0 950.0 960.0 970.0 980.0 990.0 1000.0
```

TODO #14

```
source("fourthscript.R")
```