'— #' title: "Assignment 0"

'name: "Kurtis Kuntz" #' output: pdf_document

' —

todo 1

```
((2016-2014) / (2014-1997)) * 100
```

```
## [1] 11.76471
```

todo 2

```
todo2 = ((2016-2014) / (2014-1997)) * 100
todo2
```

```
## [1] 11.76471
```

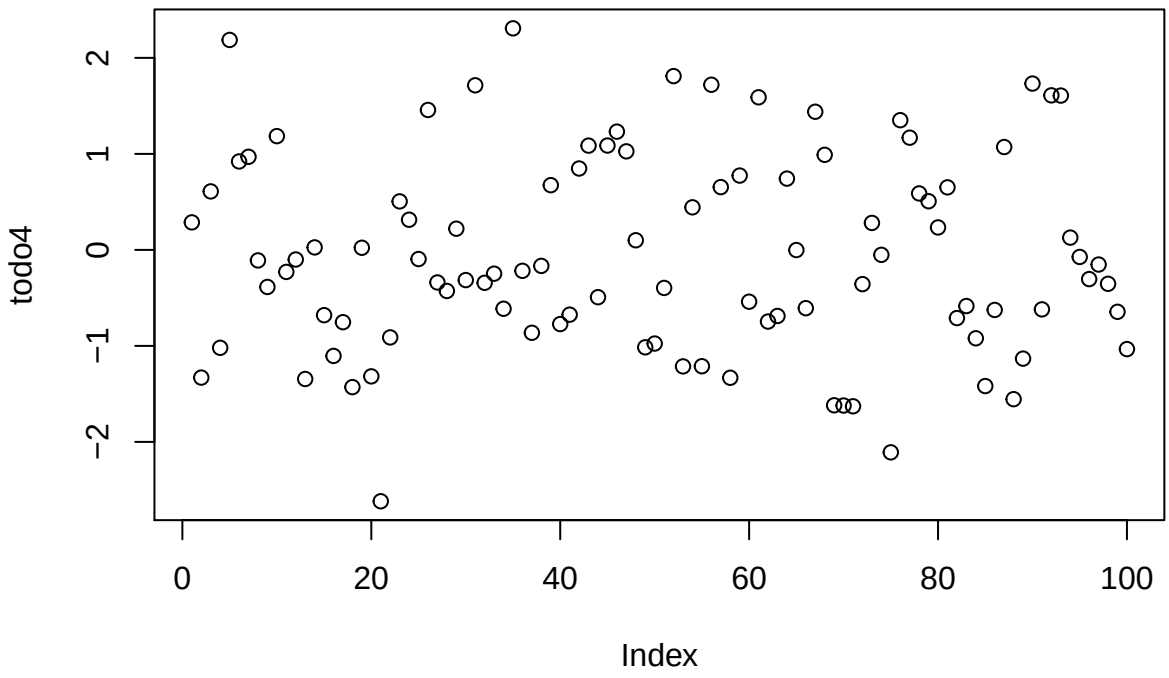
todo 3

```
todo3 = c(sum(4,5,8,11))
todo3
```

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

todo 4

```
todo4 = rnorm(100)
plot(todo4)
```



#todo 5

```
?sqrt
```

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

todo 7

```
P = c(31:60)
Q = matrix(data=P, nrow = 6, ncol = 5)
Q
```

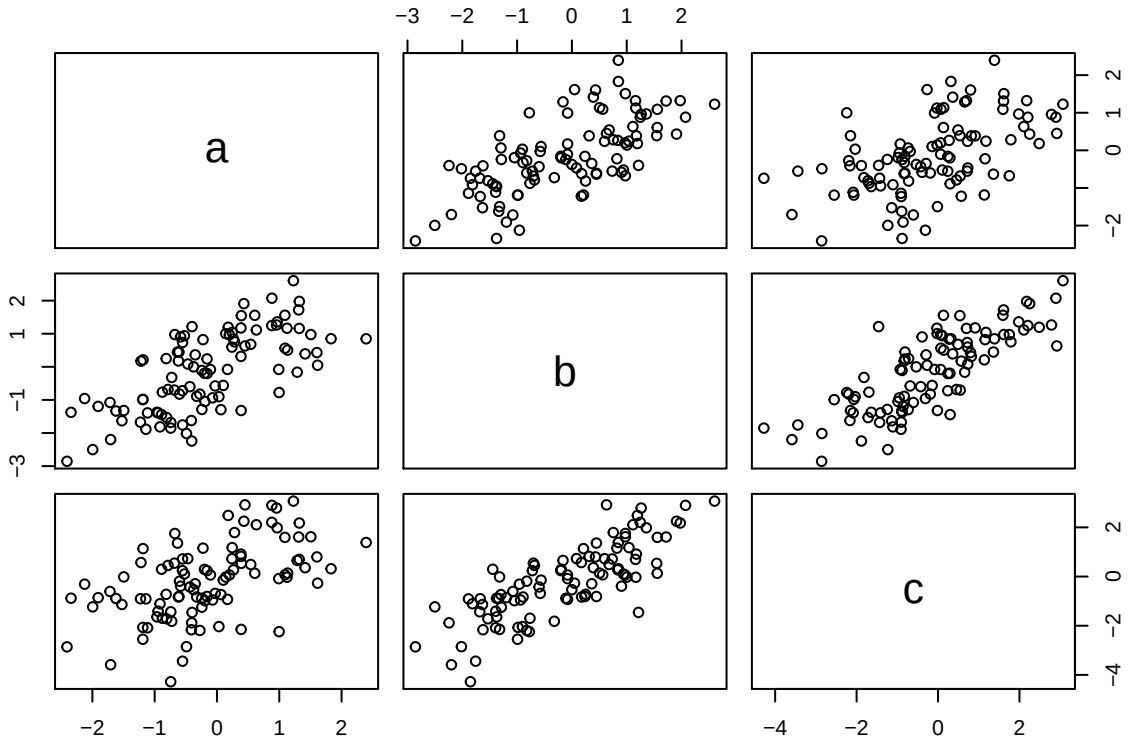
```
##      [,1] [,2] [,3] [,4] [,5]
## [1,]   31   37   43   49   55
## [2,]   32   38   44   50   56
## [3,]   33   39   45   51   57
## [4,]   34   40   46   52   58
## [5,]   35   41   47   53   59
## [6,]   36   42   48   54   60
```

todo 8

```
x1 = c(rnorm(1:100))
x2 = c(rnorm(1:100))
```

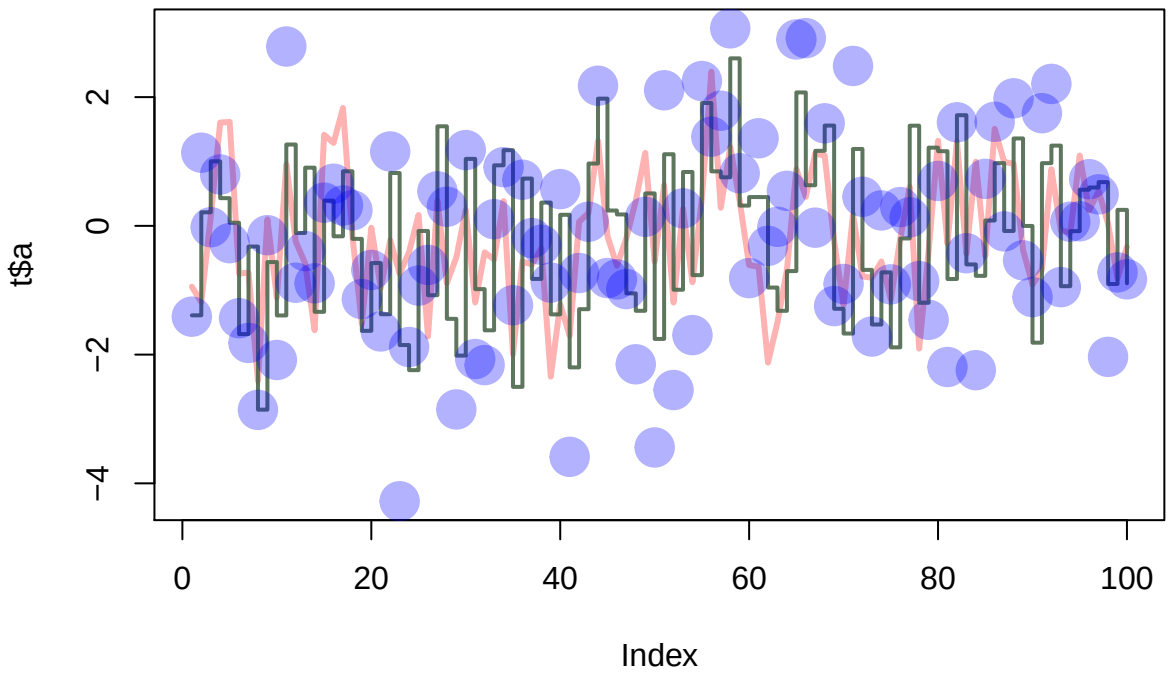
```r
x3 = c(rnorm(1:100))

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



#todo 9

```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))
```



#todo 11

```
root = sqrt(c(rnorm(1:100)))
```

```
## Warning in sqrt(c(rnorm(1:100))): NaNs produced
```

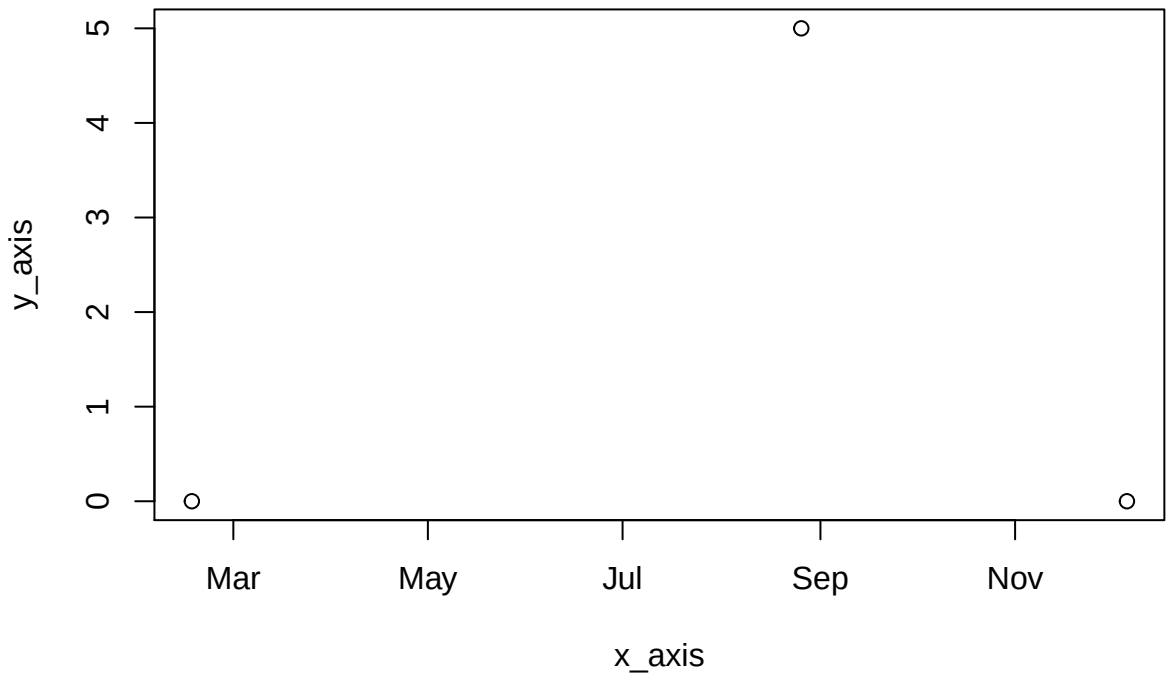
todo 10

```
r = read.table(file="C:\\Users\\Michael\\Downloads\\tst1.txt", header = TRUE)
g = r["g"] + 5
write.table(g, file="C:\\Users\\Michael\\Downloads\\tst2.txt", row.names = FALSE)
```

todo 12

```
x_axis = strptime( c("16022018", "06122018", "26082018"), format = "%d%m%Y")
y_axis = c("0", "0", "5")

plot(x_axis, y_axis)
```



#todo 13

```
x = c(1:100)
for (i in x){
  if(i < 5 | i>90){
    x[i] = x[i] * 10
  }
  else{
    x[i] = x[i] * 0.1
  }
}
x
```

```
##   [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

x = readline(prompt = “enter your vector:”) my_function(x)

my_function = function(x) { for (i in x) { if(i < 5| i > 90) { x[i] = x[i] * 10 } else { x[i] = x[i] * 0.1 } } x }