Assignment0

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todo1

```
(2017-2014)/(2014-1997)*100
```

```
## [1] 17.64706
```

todo2

```
red = 2014
green = 2017
blue = 1997
white = 100
(2017-2014)/(2014-1997)*100
```

```
## [1] 17.64706
```

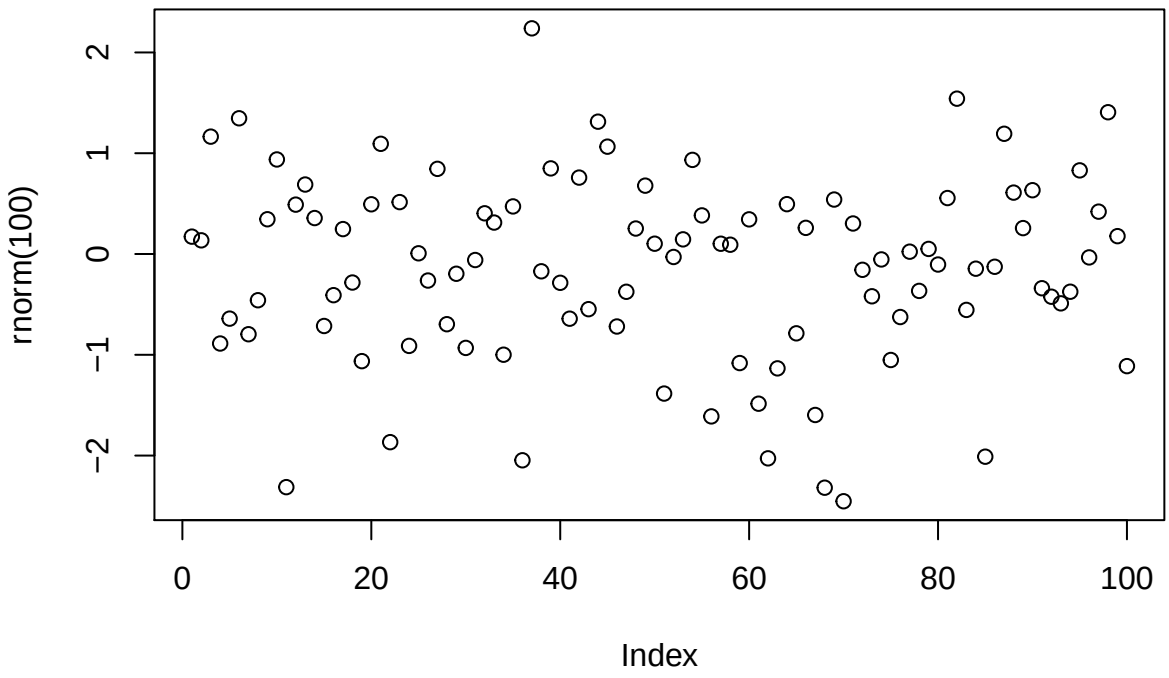
todo3

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

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

todo4

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

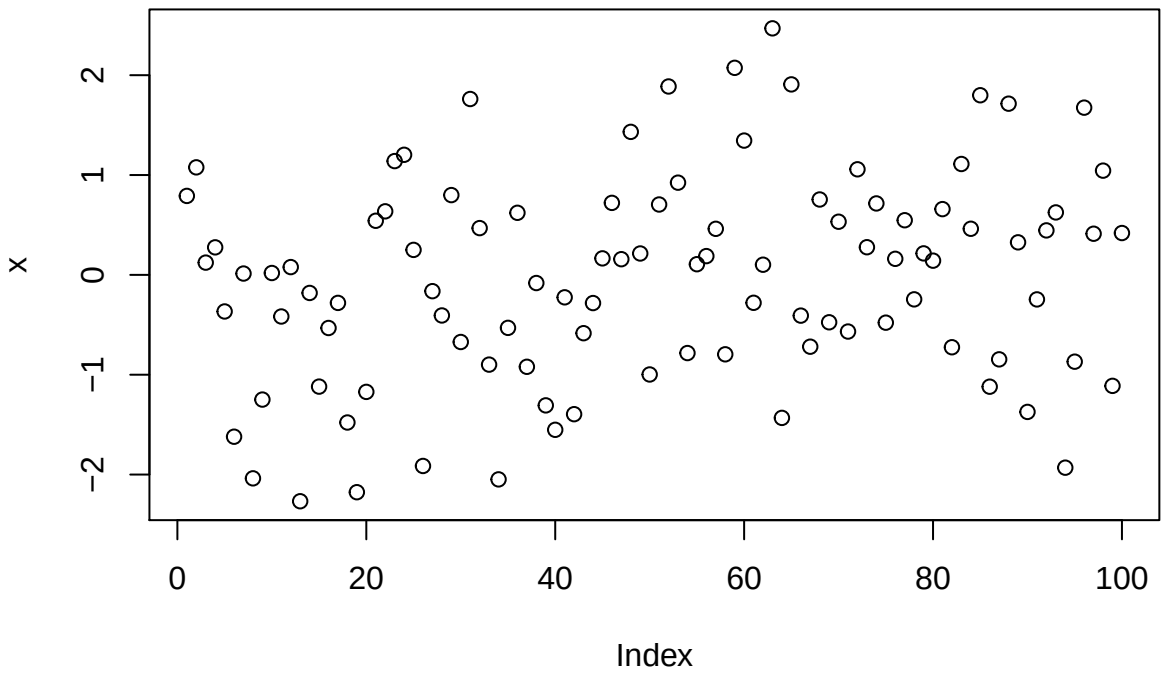


todo5

```
help(sqrt)
```

todo6

```
x=rnorm(100)
plot(x)
```



todo7

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

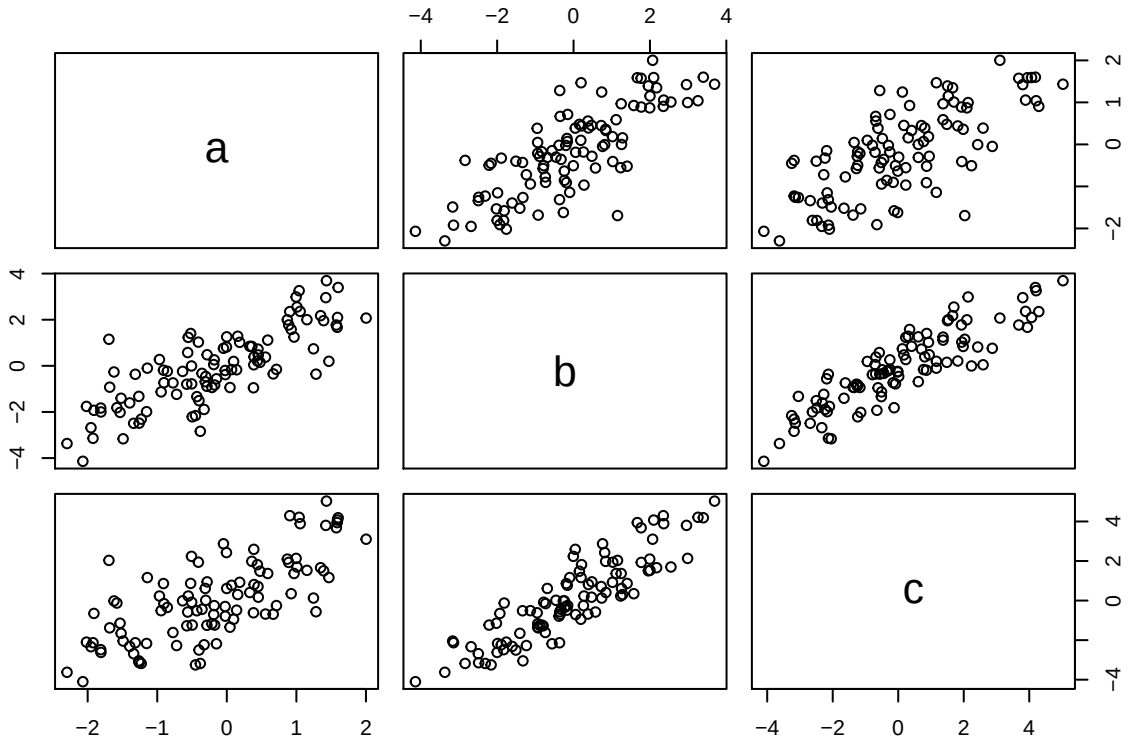
```
##  [1] 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53
## [24] 54 55 56 57 58 59 60
```

```
Q = matrix(data=P, ncol=5, nrow=6 )
print(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
```

todo8

```
x1 = c(rnorm(100))
x2 = c(rnorm(100))
x3 = c(rnorm(100))
t = data.frame(a = c(x1), b = c(x1+x2), c = c(x1+x2+x3))
plot(t)
```

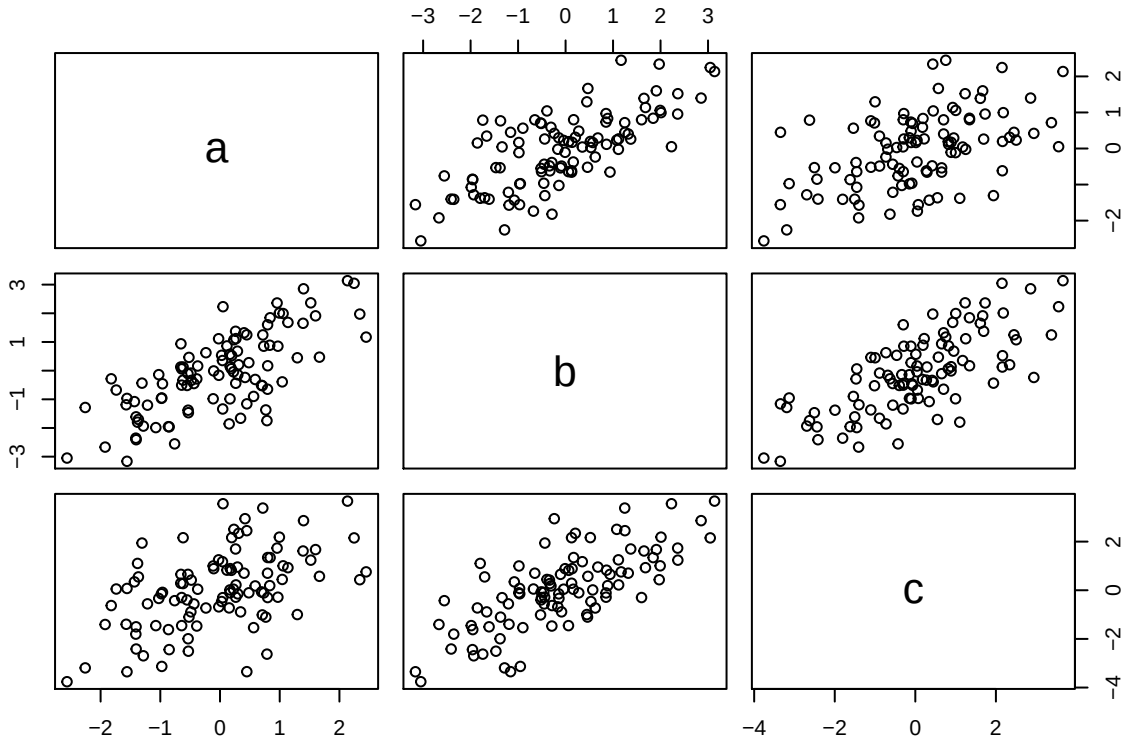



```
sd(t[t>0])
```

```
## [1] 1.09679
```

todo9

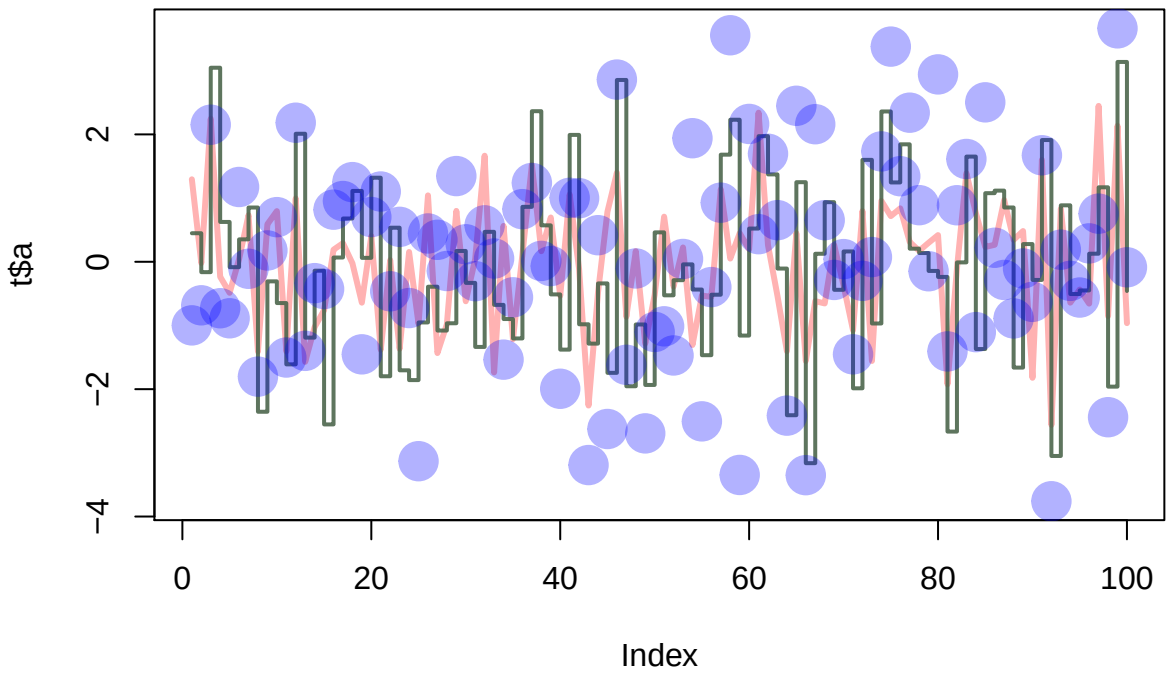
```
x1 = c(rnorm(100))
x2 = c(rnorm(100))
x3 = c(rnorm(100))
t = data.frame(a = c(x1), b = c(x1+x2), c = c(x1+x2+x3))
plot(t)
```




```
sd(t[t>0])
```

```
## [1] 0.8466642
```

```
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))
```



todo10

```
d = data.frame(a = c(1,2,4,8,16,32), g = c(2,4,8,16,32,64), x = c(3,6,12,24,48,96))
write.table(d, file="tst1.txt",row.names=FALSE)
d2 = read.table(file="tst1.txt",header=TRUE)
d2 = d$g * 5
d3 = write.table(d2 ,file = "tst2.txt")
```

todo11

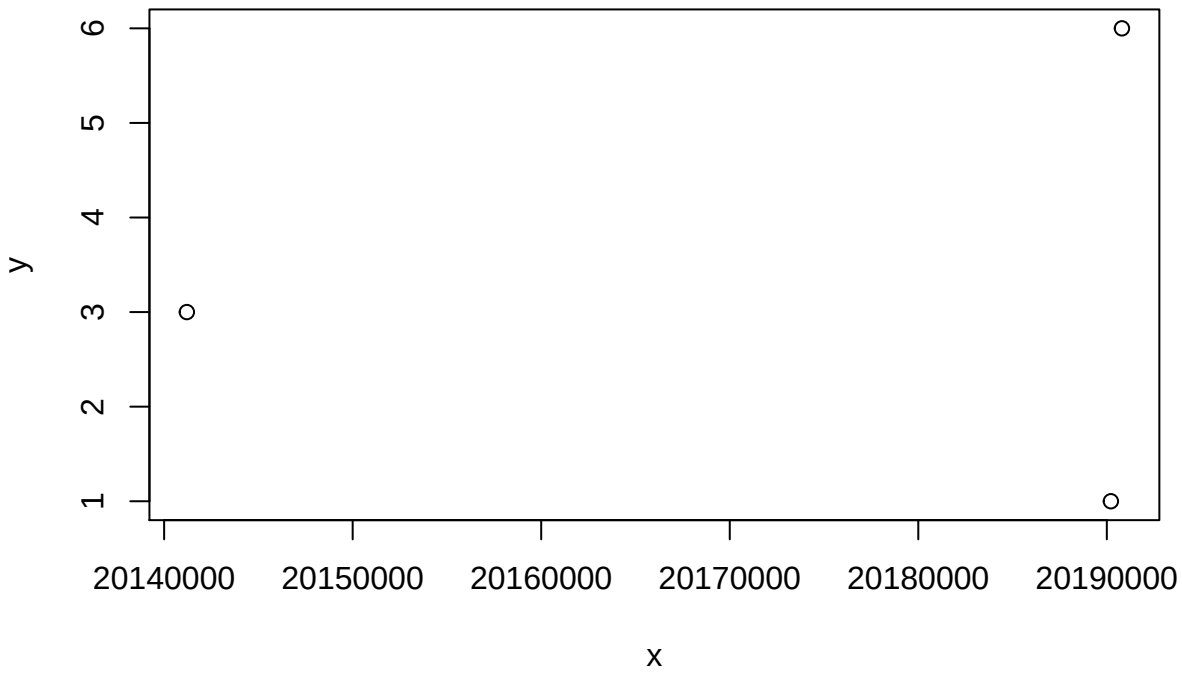
```
mean(sqrt(c(rnorm(100))))
```

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

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

todo12

```
x = c("20190215", "20141205", "20190802")
y = c(1,3,6)
plot(x,y)
```



todo13

```
a = seq(from =1, to=100, by=1)
s = c()
for ( m in 1:100){
    if (a[m] < 5 ) {
        s[m] = a[m]*10;
    } else if (a[m] > 90) {
        s[m] = a[m]*10;
    } else {
        s[m] = a[m]*0.1;
    }
}
print (s)
```

```
##   [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
```

todo14

```
b = function(x1,x2) {
        a[m] = x1[m];
        for (m in length(a)){
        }
}
```