IRIS

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R Markdown

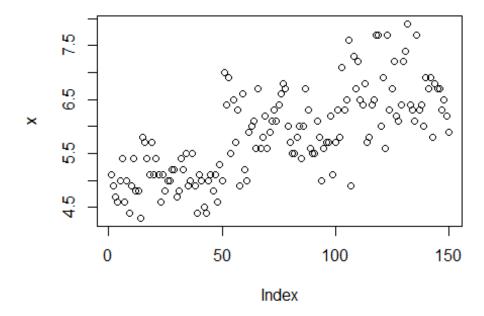
This is the R Markdown file created for introducing the basic building blocks of R to PSA Data Analytics Technical Participants.

```
install.packages("PerformanceAnalytics",repos = "http://cran.us.r-
project.org")
## package 'PerformanceAnalytics' successfully unpacked and MD5 sums checked
##
## The downloaded binary packages are in
## C:\Users\pramodkv\AppData\Local\Temp\RtmpgjppLB\downloaded_packages
library(PerformanceAnalytics)
head(iris)
     Sepal.Length Sepal.Width Petal.Length Petal.Width Species
## 1
             5.1
                                                  0.2 setosa
                         3.5
                                      1.4
## 2
             4.9
                         3.0
                                      1.4
                                                  0.2 setosa
## 3
             4.7
                         3.2
                                      1.3
                                                  0.2 setosa
## 4
             4.6
                         3.1
                                      1.5
                                                  0.2 setosa
## 5
             5.0
                         3.6
                                      1.4
                                                  0.2 setosa
## 6
             5.4
                         3.9
                                      1.7
                                                  0.4 setosa
str(iris)
## 'data.frame':
                   150 obs. of 5 variables:
## $ Sepal.Length: num 5.1 4.9 4.7 4.6 5 5.4 4.6 5 4.4 4.9 ...
## $ Sepal.Width : num 3.5 3 3.2 3.1 3.6 3.9 3.4 3.4 2.9 3.1 ...
## $ Petal.Length: num 1.4 1.4 1.3 1.5 1.4 1.7 1.4 1.5 1.4 1.5 ...
## $ Petal.Width : num 0.2 0.2 0.2 0.2 0.4 0.3 0.2 0.2 0.1 ...
              : Factor w/ 3 levels "setosa", "versicolor",..: 1 1 1 1 1 1
## $ Species
1 1 1 1 ...
dim(iris)
## [1] 150
            5
names(iris)
## [1] "Sepal.Length" "Sepal.Width" "Petal.Length" "Petal.Width" "Species"
class(iris)
```

```
## [1] "data.frame"
summary(iris)
                      Sepal.Width
                                                        Petal.Width
##
     Sepal.Length
                                       Petal.Length
          :4.300
                     Min.
                            :2.000
                                             :1.000
                                                              :0.100
##
    Min.
                                      Min.
                                                       Min.
##
    1st Qu.:5.100
                     1st Qu.:2.800
                                      1st Qu.:1.600
                                                       1st Qu.:0.300
    Median :5.800
                     Median :3.000
                                     Median :4.350
                                                      Median :1.300
##
    Mean
           :5.843
                     Mean
                            :3.057
                                     Mean
                                             :3.758
                                                      Mean
                                                              :1.199
##
##
    3rd Qu.:6.400
                     3rd Qu.:3.300
                                      3rd Qu.:5.100
                                                       3rd Qu.:1.800
                            :4.400
                                             :6.900
##
    Max.
           :7.900
                     Max.
                                     Max.
                                                      Max.
                                                              :2.500
##
          Species
##
    setosa
               :50
    versicolor:50
##
    virginica:50
##
##
##
##
```

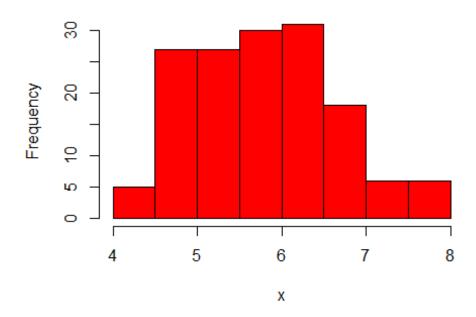
Assigning Variables and Plotting

```
x <- iris$Sepal.Length
y <- iris$Sepal.Width
z <- iris$Species</pre>
```

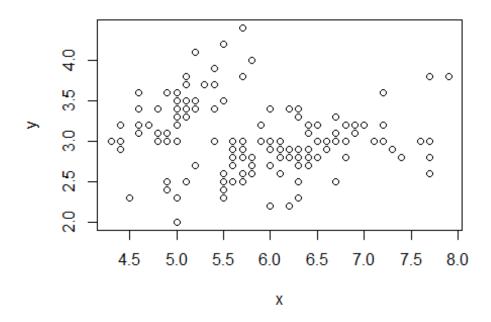


```
hist(x, col = "red")
```

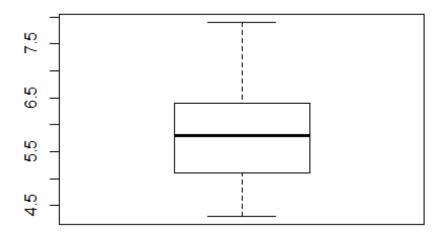
Histogram of x



plot(x,y)



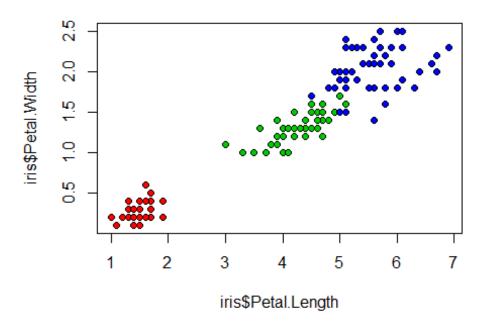
boxplot(x)



Looking at all the species in the same scatterplot for Petal Length & Width

```
plot(iris$Petal.Length, iris$Petal.Width, pch=21,
bg=c("red","green3","blue")[unclass(iris$Species)],
main="Edgar Anderson's Iris Data")
```

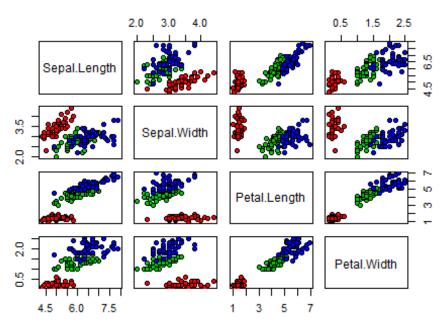
Edgar Anderson's Iris Data



Looking at the scatterplot of all the variables for each species

```
pairs(iris[1:4], main = "Edgar Anderson's Iris Data", pch = 21,
bg = c("red", "green3", "blue")[unclass(iris$Species)])
```

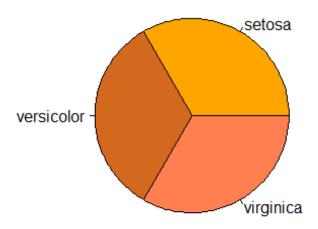
Edgar Anderson's Iris Data



Creating pi chart to show the share of each species

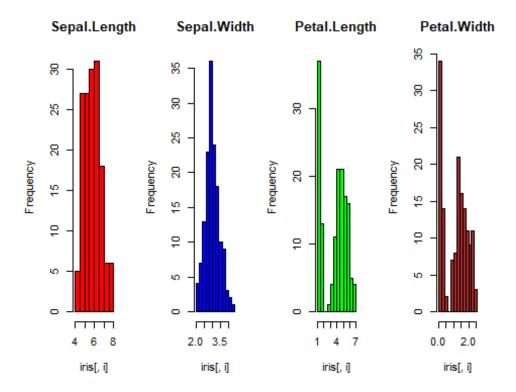
```
pie(table(iris$Species),
main = "Pie Chart of the Iris data set Species",
col = c("orange1", "chocolate", "coral"),
radius = 1)
```

Pie Chart of the Iris data set Species



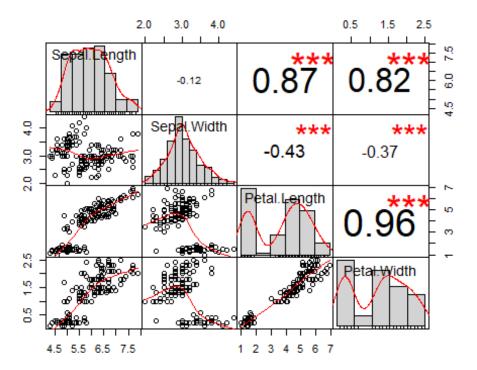
Using for loop to create multiple plots

```
par(mfrow=c(1,4))
color <- c("red", "blue", "green", "brown")
for(i in 1:4) {
hist(iris[,i], main=names(iris)[i], col = color[i]) }</pre>
```



Finding out the correlation among all the numerical variables cor(iris[,c(1:4)])

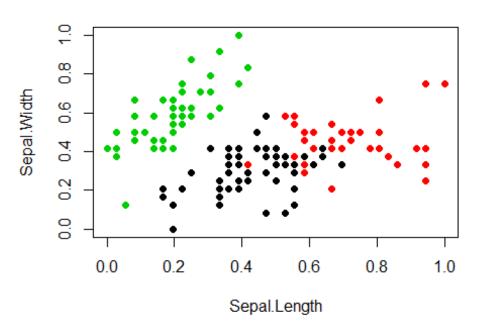
```
##
                Sepal.Length Sepal.Width Petal.Length Petal.Width
## Sepal.Length
                   1.0000000 -0.1175698
                                            0.8717538
                                                         0.8179411
## Sepal.Width
                  -0.1175698
                               1.0000000
                                            -0.4284401 -0.3661259
## Petal.Length
                   0.8717538
                              -0.4284401
                                            1.0000000
                                                         0.9628654
## Petal.Width
                   0.8179411
                              -0.3661259
                                            0.9628654
                                                         1.0000000
chart.Correlation(iris[,c(1,2,3,4)], histogram=TRUE, pch=19)
```



Demostration of K Means Clustering

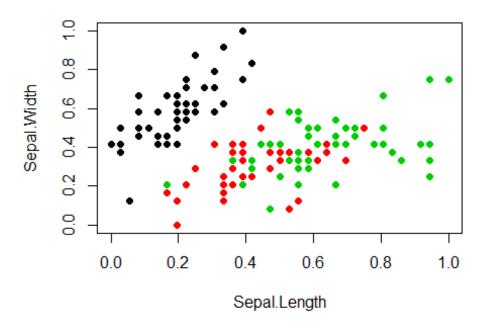
```
normalize <- function(x){</pre>
  return ((x-min(x))/(max(x)-min(x)))
}
iris$Sepal.Length<- normalize(iris$Sepal.Length)</pre>
iris$Sepal.Width<- normalize(iris$Sepal.Width)</pre>
iris$Petal.Length<- normalize(iris$Petal.Length)</pre>
iris$Petal.Width<- normalize(iris$Petal.Width)</pre>
head(iris)
     Sepal.Length Sepal.Width Petal.Length Petal.Width Species
##
## 1
       0.2222222
                    0.6250000
                                 0.06779661 0.04166667
                                                          setosa
## 2
       0.16666667
                    0.4166667
                                 0.06779661 0.04166667
                                                         setosa
       0.1111111
                                 0.05084746 0.04166667
## 3
                    0.5000000
                                                          setosa
## 4
       0.08333333
                    0.4583333
                                 0.08474576 0.04166667
                                                         setosa
                                 0.06779661 0.04166667
## 5
       0.19444444
                    0.6666667
                                                          setosa
## 6
       0.30555556
                    0.7916667
                                 0.11864407 0.12500000
                                                         setosa
result<- kmeans(iris[,c(1,2,3,4)],3)
plot(iris[c(1,2)], col=result$cluster, pch = 19, main =" Clusters based on
Sepal Length and Width")
```

Clusters based on Sepal Length and Width



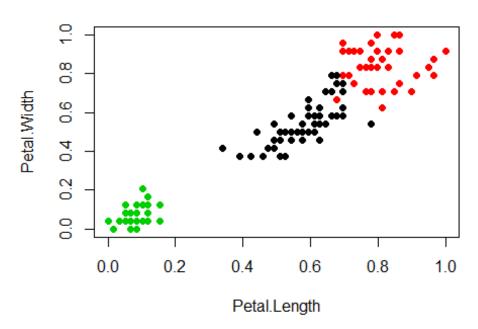
plot(iris[c(1,2)], col=iris\$Species, pch = 19, main =" Clusters based on
Flower Species")

Clusters based on Flower Species



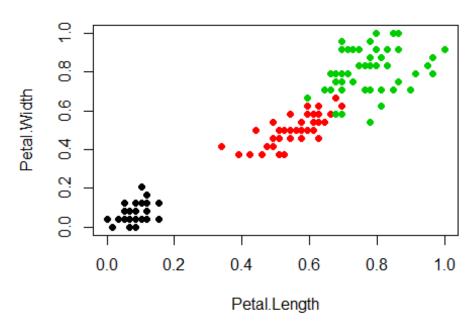
plot(iris[c(3,4)], col=result\$cluster, pch = 19, main =" Clusters based on
Petal Length and Width")

Clusters based on Petal Length and Width



plot(iris[c(3,4)], col=iris\$Species, pch = 19, main =" Clusters based on
Flower Species")

Clusters based on Flower Species

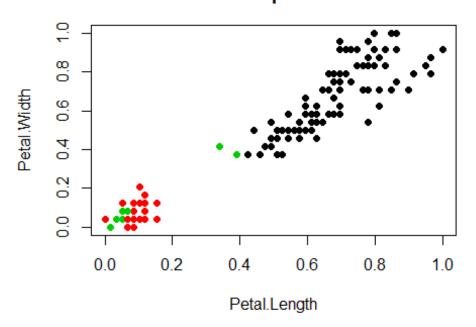


Create getmode function to obtain mode.

```
getmode <- function(v) {
   uniqv <- unique(v)
   uniqv[which.max(tabulate(match(v, uniqv)))]
}</pre>
```

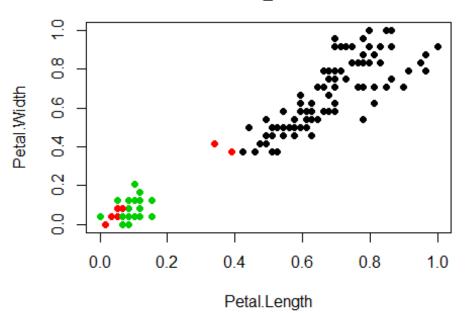
Running the k means algorithms four times on the same dataset

```
avg <- NULL
for (i in 1:10) {
    set.seed(100 +50*i+i*i)
    result<- kmeans(iris[,c(1,2,3,4)],3)
plot(iris[c(3,4)], col=result$cluster, pch = 19, main =c(" Clusters based on
Petal Length and Width: Iteration ", i))
avg <- rbind(result$cluster, avg)
print(avg)
}</pre>
```



##	[,1]	[,2] [,3] [,4	1] [,5]	[,6]	[,7]	[8,]	,9] [,:	10] [,1	11] [,1	[,1	.3]
[,14] ## [1,] 3	2	3	3	3 2	2 2	2	2	3	3	2	2	3
## [,26]	[,15]	[,16]	[,17]	[,18]	[,19]	[,20]	[,21]	[,22]	[,23]	[,24]	[,25]	
## [1,]	2	2	2	2	2	2	2	2	2	2	2	
## [,38]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]	[,35]	[,36]	[,37]	
## [1,] 2	2	2	2	3	3	2	2	2	3	3	2	
## [,50]	[,39]	[,40]	[,41]	[,42]	[,43]	[,44]	[,45]	[,46]	[,47]	[,48]	[,49]	
## [1,] 2	3	2	2	3	3	2	2	3	2	3	2	
## [,62]	[,51]	[,52]	[,53]	[,54]	[,55]	[,56]	[,57]	[,58]	[,59]	[,60]	[,61]	
## [1,] 1	1	1	1	1	1	1	1	3	1	1	3	
## [,74]	[,63]	[,64]	[,65]	[,66]	[,67]	[,68]	[,69]	[,70]	[,71]	[,72]	[,73]	
## [1,] 1	1	1	1	1	1	1	1	1	1	1	1	
## [,86]	[,75]	[,76]	[,77]	[,78]	[,79]	[,80]	[,81]	[,82]	[,83]	[,84]	[,85]	
## [1,]	1	1	1	1	1	1	1	1	1	1	1	

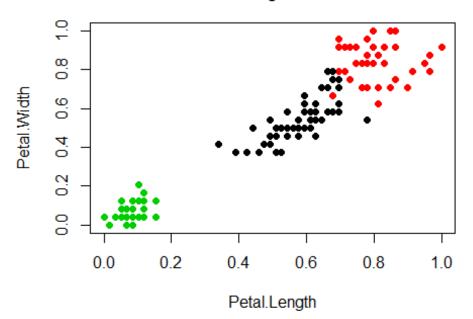
```
[,87] [,88] [,89] [,90] [,91] [,92] [,93] [,94] [,95] [,96] [,97]
##
[,98]
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## [1,]
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1
##
        [,99] [,100] [,101] [,102] [,103] [,104] [,105] [,106] [,107] [,108]
## [1,]
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                                        1
        [,109] [,110] [,111] [,112] [,113] [,114] [,115] [,116] [,117] [,118]
## [1,]
##
        [,119] [,120] [,121] [,122] [,123] [,124] [,125] [,126] [,127] [,128]
## [1,]
        [,129] [,130] [,131] [,132] [,133] [,134] [,135] [,136] [,137] [,138]
##
## [1,]
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                                         1
##
        [,139] [,140] [,141] [,142] [,143] [,144] [,145] [,146] [,147] [,148]
## [1,]
                                          1
        [,149] [,150]
## [1,]
        1
```



```
[,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13]
##
[,14]
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## [1,]
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## [2,]
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      [,15] [,16] [,17] [,18] [,19] [,20] [,21] [,22] [,23] [,24] [,25]
##
[,26]
```

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## [2,]
       [,27] [,28] [,29] [,30] [,31] [,32] [,33] [,34] [,35] [,36] [,37]
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[38]
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## [1,]
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       [,39] [,40] [,41] [,42] [,43] [,44] [,45] [,46] [,47] [,48] [,49]
[,50]
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## [2,]
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[,62]
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## [1,]
## [2,]
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       [,63] [,64] [,65] [,66] [,67] [,68] [,69] [,70] [,71] [,72] [,73]
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[,74]
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       [,75] [,76] [,77] [,78] [,79] [,80] [,81] [,82] [,83] [,84] [,85]
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## [1,]
```

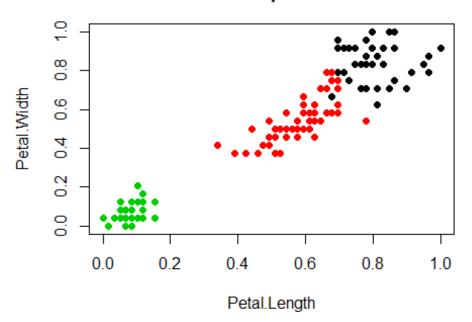
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1 1 1 1 1 1 1 1
      [,139] [,140] [,141] [,142] [,143] [,144] [,145] [,146] [,147] [,148]
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## [2,]
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##	[,1]	[,2] [,3] [,4] [,5]	[,6]	[,7]	[8,]	,9] [,	10] [,	11] [,:	12] [,1	L3]
[,14] ## [1,]	3	3	3	3 3	3	3	3	3	3	3	3	3
3 ## [2,]	3	2	2	2 3	3	3	3	2	2	3	3	2
2 ## [3,]	2	3	3	3 2	2	2	2	3	3	2	2	3
3 ##	ſ 151	[16]	[,17]	آ 1 <u>8</u> 1	Г 191	F 201	「 21 1	r 221	[23]	「 2 4 1	ſ 251	
[,26]												
## [1,] 3	3	3	3	3	3	3				3	3	
## [2,] 2	3	3	3	3	3	3	3	3	3	3	3	
## [3,]	2	2	2	2	2	2	2	2	2	2	2	
## [,38]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]	[,35]	[,36]	[,37]	
## [1,]	3	3	3	3	3	3	3	3	3	3	3	

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##
         [,63] [,64] [,65] [,66] [,67] [,68] [,69] [,70] [,71] [,72] [,73]
[,74]
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[,86]
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##	[3,]	1	1	1	1	1	1	1	1	1	1
##		[,119]	[,120]	[,121]	[,122]	[,123]	[,124]	[,125]	[,126]	[,127]	[,128]
##	[1,]	2	1	2	1	2	1	2	2	1	1
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##	[3,]	1	1	1	1	1	1	1	1	1	1
##		[,129]	[,130]	[,131]	[,132]	[,133]	[,134]	[,135]	[,136]	[,137]	[,138]
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##	[2,]	1	1	1	1	1	1	1	1	1	1
##	[3,]	1	1	1	1	1	1	1	1	1	1
##		[,139]	[,140]	[,141]	[,142]	[,143]	[,144]	[,145]	[,146]	[,147]	[,148]
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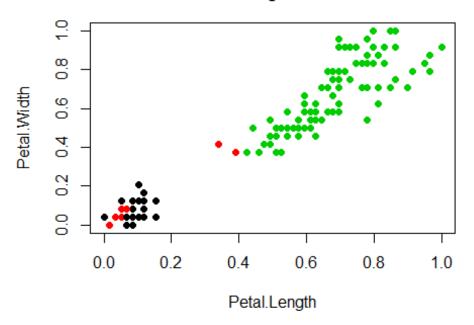


##	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]	[,13]
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2 ## [4,]	2	3	3	3 2	2 2	2	2	3	3	2	2	3
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[,26] ## [1,] 3	3	3	3	3	3	3	3	3	3	3	3	
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## [,38]			[,29]									
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## [4,] 2 ##	2		[,41]									
"" [,50] ## [1,]	[,59]	3	3	3	[,45]	3	[,45]	3	3	3	[,49]	
3 ## [2,]	3	3	3	3	3	3	3	3	3	3	3	
3 ## [3,]	2	3	3	2	2	3	3	2	3	2	3	
3 ## [4,]	3	2	2	3	3	2	2	3	2	3	2	
2 ##	[,51]	[,52]	[,53]	[,54]	[,55]	[,56]	[,57]	[,58]	[,59]	[,60]	[,61]	
[,62] ## [1,]	1	2	1	2	2	2	2	2	2	2	2	
2 ## [2,]	2	1	2	1	1	1	1	1	1	1	1	
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## [,74]	[,63]	[,64]	[,65]	[,66]	[,67]	[,68]	[,69]	[,70]	[,71]	[,72]	[,73]	
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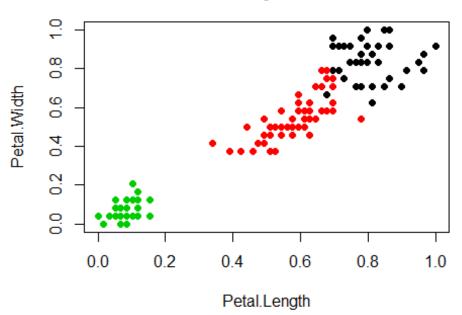


##	[,1]	[2] [.	,3] [,4] [,5]	[,6]	[,7]	[8,]	[,9]	[,10]	[,11]	[,12]	[,13]
[,14] ## [1,]	1	2	2	2 1	1	1	1	2	2	1	1	2
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## [5,]	2	3	3	3 2	2	2	2	3	3	2	2	3
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##	[,15]	[,16]	[,17]	[,18]	[,19]	[,20]	[,21] [,2	[2]	23] [,2	24] [,2	25]
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3												
## [,38]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]	[,35]	[,36]	[,37]	
## [1,]	1	1	1	2	2	1	1	1	2	2	1	
## [2,] 3	3	3	3	3	3	3	3	3	3	3	3	
## [3,]	3	3	3	3	3	3	3	3	3	3	3	
3 ## [4,]	3	3	3	2	2	3	3	3	2	2	3	
3 ## [5,]	2	2	2	3	3	2	2	2	3	3	2	
2 ##	[,39]	[,40]	[,41]	[,42]	[,43]	[,44]	[,45]	[,46]	[,47]	[,48]	[,49]	
[,50] ## [1,]	2	1	1	2	2	1	1	2	1	2	1	
1 [2,]	3	3	3	3	3	3	3	3	3	3	3	
3 ## [3,]	3	3	3	3	3	3	3	3	3	3	3	
3 ## [4,]	2	3	3	2	2	3	3	2	3	2	3	
3 ## [5,]	3	2	2	3	3	2	2	3	2	3	2	
2 ##	[,51]	[,52]	[,53]	[,54]	[,55]	[,56]	[,57]	[,58]	[,59]	[,60]	[,61]	
[,62] ## [1,]	3	3	3	3	3	3	3	2	3	3	2	
3 ## [2,]	1	2	1	2	2	2	2	2	2	2	2	
2 ## [3,]	2	1	2	1	1	1	1	1	1	1	1	
1 ## [4,]	1	1	1	1	1	1	1	2	1	1	2	
1 ## [5,]	1	1	1	1	1	1	1	3	1	1	3	
1 ##	[,63]	[,64]	[,65]	[,66]	[,67]	[,68]	[,69]	[,70]	[,71]	[,72]	[,73]	
[,74] ## [1,]	3	3	3	3	3	3	3	3	3	3	3	
3 ## [2,]	2	2	2	2	2	2	2	2	2	2	2	
2 ## [3,]	1	1	1	1	1	1	1	1	1	1	1	
1 ## [4,]	1	1	1	1	1	1	1	1	1	1	1	
1 ## [5,]	1	1	1	1	1	1	1	1	1	1	1	
1 ##	ſ 751	[.76]	[.77]	[.78]	۲.791	[.80]	[.81]	[,82]	[.83]	[.84]	[,85]	

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##	[4,]	1	1	1	1	1	1	1	1	1	1
##	[5,]	1	1	1	1	1	1	1	1	1	1
##		[,149]	[,150]								
##	[1,]	3	3								
##	[2,]	1	2								
##	[3,]	2	1								
##	[4,]	1	1								
##	[5,]	1	1								

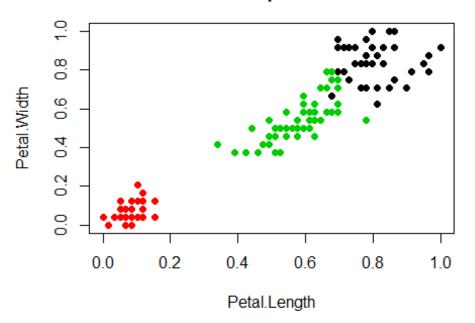


##	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[8,]	[,9]	[,10]	[,11]	[,12]	[,13]
[,14] ## [1,]	3	3	3	3	3	3	3	3	3	3	3	3		3
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3 ## [5,]	3	2	2	2	3	3	3	3	2	2	3	3	•	2
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3 ## [2,]	1	1	1	1	1	1	1	1	1	1	1	
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## [4,] 3	3	3	3	3	3	3	3	3	3	3	3	
## [5,] 2	3	3	3	3	3	3	3	3	3	3	3	
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## [2,] 1	1	1	1	2	2	1	1	1	2	2	1	
## [3,] 3	3	3	3	3	3	3	3	3	3	3	3	
## [4,] 3	3	3	3	3	3	3	3	3	3	3	3	
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##	[,39]	[,40]	[,41]	[,42]	[,43]	[,44]	[,45]	[,46]	[,47]	[,48]	[,49]	
## [,50] ## [1,]	[,39] 3	[,40] 3	[,41] 3	[,42] 3	[,43] 3	[,44] 3	[,45] 3	[,46] 3	[,47] 3	[,48] 3	[,49] 3	
## [,50] ## [1,] 3 ## [2,]		3										
## [,50] ## [1,] 3 ## [2,] 1 ## [3,]	3	3	3	3	3	3	3	3	3	3	3	
## [,50] ## [1,] 3 ## [2,] 1 ## [3,] 3 ## [4,]	3 2	3 1	3 1	3 2	3 2	3 1	3 1	3 2	3 1	3 2	3	
## [,50] ## [1,] 3 ## [2,] 1 ## [3,] 3 ## [4,] 3 ## [5,]	3 2 3	3 1 3	3 1 3	3 2 3	3 2 3	3 1 3	3 1 3	3 2 3	3 1 3	3 2 3	3 1 3	
## [,50] ## [1,] 3 ## [2,] 1 ## [3,] 3 ## [4,] 3 ## [5,] 3 ## [6,]	3 2 3 3	3 1 3	3 1 3	3 2 3 3	3 2 3 3	3 1 3	3 1 3 3	3 2 3 3	3 1 3 3	3 2 3 3	3 1 3 3	
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## [,50] ## [1,] 3 ## [2,] 1 ## [3,] 3 ## [4,] 3 ## [5,] 3 ## [6,] 2 ## [1,] 2 ## [1,]	3 3 3 2 3 [,51]	3 3 3 2 [,52]	3 3 3 2 [,53]	3 3 3 2 3 [,54]	3 3 3 2 3 [,55]	3 3 3 2 [,56]	3 3 3 2 [,57]	3 2 3 2 3 [,58]	3 3 3 2 [,59]	3 3 3 2 3 [,60]	3 1 3 3 2 [,61]	
## [,50] ## [1,] 3 ## [2,] 1 ## [3,] 3 ## [5,] 3 ## [6,] 2 ## [1,] 2 ## [2,] 3 ## [3,]	3 3 3 2 3 [,51]	3 3 3 2 [,52] 2	3 3 3 2 [,53]	3 3 3 2 3 [,54]	3 3 3 2 3 [,55]	3 3 3 2 [,56]	3 3 3 2 [,57]	3 2 3 2 3 [,58]	3 3 3 2 [,59] 2	3 3 3 2 3 [,60]	3 1 3 3 2 [,61]	
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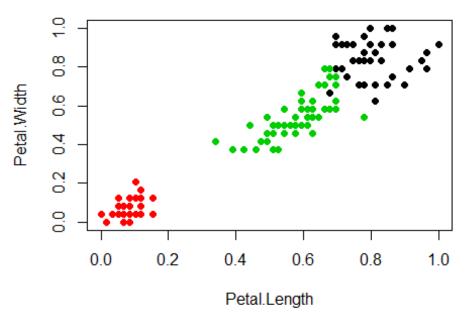


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## [,38]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]	[,35]	[,36]	[,37]	
## [1,] 2	2	2	2	2	2	2	2	2	2	2	2	
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## [4,]	3	3	3	3	3	3	3	3	3	3	3	
## [5,]	3	3	3	3	3	3	3	3	3	3	3	
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## [7,] 1 ##	1	1 [,76]	1	1	1	1	1 [Q1]	1	1	1	1	
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3 ## [4,]	2	2	2	1	2	2	2	2	2	2	2	
2 ## [5,]	1	1	1	2	1	1	1	1	1	1	1	
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          [,119] [,120] [,121] [,122] [,123] [,124] [,125] [,126] [,127] [,128]
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          [,129] [,130] [,131] [,132] [,133] [,134] [,135] [,136] [,137] [,138]
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## [7,]
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## [1,]
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                1
                        1
## [6,]
## [7,]
```



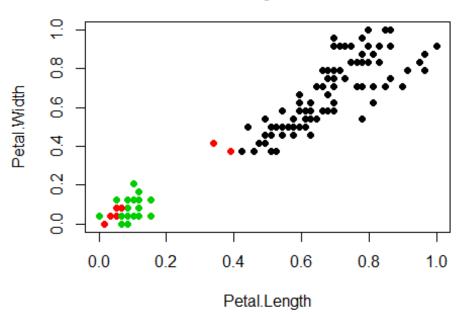
##	4 7	[,1]	[,2] [,3][,	4] [,5]	[,6]	[,7]	[8,]	[,9]	[,10]	[,1	.1] [,:	12] [,:	13]
[,14															
## [[1,]	2	2	2	2	2	2	2	2	2	2		2	2	2
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## [[2,]	2	2	2	2	2	2	2	2	2	2		2	2	2
2	,_	_	_	_	_	_	_	_	_	_	_		_	_	_
		_	2	2	_	_	_	_	_	_	_		2	2	_
	[3,]	3	3	3	3	3	3	3	3	3	3		3	3	3
3															
## [[4,]	1	2	2	2	1	1	1	1	2	2		1	1	2
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	re 1	2	3	3	3	3	3	3	3	3	3		3	3	3
	[5,]	3	3	5	5	2	5	5	5	3	5		5	5	5
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## [[6,]	3	3	3	3	3	3	3	3	3	3		3	3	3
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	[7,]	3	2	2	2	3	3	3	3	2	2		3	3	2
	[· /]	5	2	2	2	5	5	5	5	2			5	5	2
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## [[8,]	2	3	3	3	2	2	2	2	3	3		2	2	3
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##		ſ.151	[,16]	Γ.171	Γ.18	81 I	.191	[.20]	Γ. 21	1 [.3	21 Г.	231	Γ.241	Γ.251	
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## [[2,]	2	2	2		2	2	2)	2	2	2	2	2	
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_	[3,]	3	3	3		3	3	3)	3	3	3	3	3	
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## [[4,]	1	1	1		1	1	1		1	1	1	1	1	

2 ## [5,]	3	3	3	3	3	3	3	3	3	3	3	
3 ## [6,]	3	3	3	3	3	3	3	3	3	3	3	
3 ## [7,]	3	3	3	3	3	3	3	3	3	3	3	
2	2	2	2	2	2	2	2	2	2	2	2	
## [8,] 3												
## [,38]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]	[,35]	[,36]	[,37]	
## [1,] 2	2	2	2	2	2	2	2	2	2	2	2	
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## [3,] 3	3	3	3	3	3	3	3	3	3	3	3	
## [4,]	1	1	1	2	2	1	1	1	2	2	1	
1 ## [5,]	3	3	3	3	3	3	3	3	3	3	3	
3 ## [6,]	3	3	3	3	3	3	3	3	3	3	3	
3 ## [7,]	3	3	3	2	2	3	3	3	2	2	3	
3 ## [8,]	2	2	2	3	3	2	2	2	3	3	2	
2												
## [,50]	[,39]	[,40]	[,41]	[,42]	[,43]	[,44]	[,45]	[,46]	[,4/]	[,48]	[,49]	
## [1,] 2	2	2	2	2	2	2	2	2	2	2	2	
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2 ## [3,]	3	3	3	3	3	3	3	3	3	3	3	
3 ## [4,]	2	1	1	2	2	1	1	2	1	2	1	
1 ## [5,]	3	3	3	3	3	3	3	3	3	3	3	
3 ## [6,]	3	_		_	2	_	2	2	3	3	3	
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3 ## [7]		3	3	3	3	3	3	3				
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## [7,] 3 ## [8,] 2 ##	2	3 2	3 2	2	2	3 2	3 2	2	3 2	2	3	

3 ## [3,]	1	2	1	2	2	2	2	2	2	2	2	
2 ## [4,]	3	3	3	3	3	3	3	2	3	3	2	
3 ## [5,]	1	2	1	2	2	2	2	2	2	2	2	
2 ## [6,]	2	1	2	1	1	1	1	1	1	1	1	
1 ## [7,]	1	1	1	1	1	1	1	2	1	1	2	
1 [8,]	1	1	1	1	1	1	1	3	1	1	3	
1 ##			[,65]									
[,74] ## [1,]	3	3	3	3	3	3	3	3	3	3	3	
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## [4,] 3	3	3	3	3		3	3	3	3	3	3	
## [5,] 2	2	2	2	2	2	2	2	2	2	2	2	
## [6,] 1	1	1	1	1	1	1	1	1	1	1	1	
## [7,] 1	1	1	1	1	1	1	1	1	1	1	1	
## [8,]	1	1	1	1	1	1	1	1	1	1	1	
## [,86]	[,75]	[,76]	[,77]	[,78]	[,79]	[,80]	[,81]	[,82]	[,83]	[,84]	[,85]	
## [1,] 3	3	3	3	1	3	3	3	3	3	3	3	
## [2,]	3	3	3	1	3	3	3	3	3	3	3	
## [3,] 2	2	2	2	1	2	2	2	2	2	2	2	
## [4,] 3	3	3	3	3	3	3	3	3	3	3	3	
## [5,] 2	2	2	2	1	2	2	2	2	2	2	2	
## [6,]	1	1	1	2	1	1	1	1	1	1	1	
1 ## [7,]	1	1	1	1	1	1	1	1	1	1	1	
1 ## [8,]	1	1	1	1	1	1	1	1	1	1	1	
1 ##	[,87]	[,88]	[,89]	[,90]	[,91]	[,92]	[,93]	[,94]	[,95]	[,96]	[,97]	

[,98] ## [1,] 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3											
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## [8,]		1	1	1	1	1	1 1	2	1	1	1
## [,99] [,100] [,101] [,102] [,103] [,104] [,105] [,106] [,107] [,108] ## [1,] 3 3 1 1 1 1 1 3 1 ## [2,] 3 3 3 1 3 1 1 1 1 1 3 1 ## [3,] 2 2 1 1 2 1 1 1 1 1 1 2 1 ## [4,] 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3											
## [,99] [,100] [,101] [,102] [,103] [,104] [,105] [,106] [,107] [,108] ## [1,] 3 3 3 1 3 1 1 1 1 1 3 1 ## [2,] 3 3 3 1 3 1 3 1 1 1 1 1 2 1 ## [4,] 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		1	1	1	1	1	1 1	3	1	1	1
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## [8,] 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1		1		2	2			
## [,109] [,110] [,111] [,112] [,113] [,114] [,115] [,116] [,117] [,118] ## [1,]			1	1	1	1	1	1		1	
## [1,]			_	-	_	_		_			
## [2,]											[,118]
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## [,119] [,120] [,121] [,122] [,123] [,124] [,125] [,126] [,127] [,128] ## [1,]		1		1					1	1	1
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## [6,] 2 1 2 1 2 1 </td <td></td>											
## [7,] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
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## [,129] [,130] [,131] [,132] [,133] [,134] [,135] [,136] [,137] [,138] ## [1,]		1	. 1			1	1			1	
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## [2,] 1 1 1 1 1 3 3 1 1 1 1 ## [3,] 1 1 1 1 1 2 2 1 1 1 ## [4,] 3 3 3 3 3 3 3 3 3 3 3 3		[,129]	[,130]	[,131]	[,132]	[,133]	[,134]	[,135]	[,136]	[,137]	[,138]
## [3,] 1 1 1 1 1 2 2 1 1 1 1 ## [4,] 3 3 3 3 3 3 3 3 3 3				1		1			1		1
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				- 4	1	1	2	2	1	1	1
## [5,] 1 1 1 1 1 2 2 1 1 1 1											
	## [4,]	3	3	3	3	3	3	3	3	3	3

##	[6,]	2	2	2	2	2	1	1	2	2	2
##	[7,]	1	1	1	1	1	1	1	1	1	1
##	[8,]	1	1	1	1	1	1	1	1	1	1
##		[,139]	[,140]	[,141]	[,142]	[,143]	[,144]	[,145]	[,146]	[,147]	[,148]
##	[1,]	3	1	1	1	3	1	1	1	3	1
##	[2,]	3	1	1	1	3	1	1	1	3	1
##	[3,]	2	1	1	1	2	1	1	1	2	1
##	[4,]	3	3	3	3	3	3	3	3	3	3
##	[5,]	2	1	1	1	2	1	1	1	2	1
##	[6,]	1	2	2	2	1	2	2	2	1	2
##	[7,]	1	1	1	1	1	1	1	1	1	1
##	[8,]	1	1	1	1	1	1	1	1	1	1
##		[,149]	[,150]								
##	[1,]	1	3								
##	[2,]	1	3								
##	[3,]	1	2								
##	[4,]	3	3								
##	[5,]	1	2								
##	[6,]	2	1								
##	[7,]	1	1								
##	[8,]	1	1								



##		[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]	[,13]
##	[1,]	3	2	2	2	3	3	3	3	2	2	3	3	2
##	[2,]	2	2	2	2	2	2	2	2	2	2	2	2	2
##	[3,]	2	2	2	2	2	2	2	2	2	2	2	2	2
##	[4,]	3	3	3	3	3	3	3	3	3	3	3	3	3

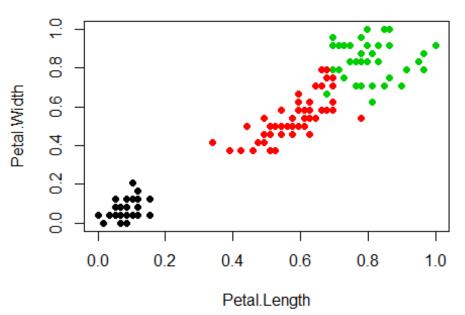
## ## ##	[5,] [6,] [7,] [8,]	1 3 3 3	2 3 3 2	2 3 3 2	2 1 3 3 3 3 2 3	3 3	1 3 3 3	1 3 3 3	2 3 3 2	2 3 3 2	1 3 3 3	1 3 3 3	2 3 3 2
## ## [,2	[9,]	2 [,14]	3 [,15]	3 [,16]	3 2 [,17]		2 [,19]	2 [,20]	3 [,21]	3 [,22]	2 [,23]	2 [,24]	3
##	[1,]	2	3	3	3	3	3	3	3	3	3	3	
## 2	[2,]	2	2	2	2	2	2	2	2	2	2	2	
## 2	[3,]	2	2	2	2	2	2	2	2	2	2	2	
## 3	[4,]	3	3	3	3	3	3	3	3	3	3	3	
## 1	[5,]	2	1	1	1	1	1	1	1	1	1	1	
## 3	[6,]	3	3	3	3	3	3	3	3	3	3	3	
## 3	[7,]	3	3	3	3	3	3	3	3	3	3	3	
## 3	[8,]	2	3	3	3	3	3	3	3	3	3	3	
## 2	[9,]	3	2	2	2	2	2	2	2	2	2	2	
##		[,26]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]	[,35]	[,36]	
[,3° ##	7] [1,]	2	3	3	3	2	2	3	3	3	2	2	
3 ##	[2,]	2	2	2	2	2	2	2	2	2	2	2	
2 ##	[3,]	2	2	2	2	2	2	2	2	2	2	2	
2 ##	[4,]	3	3	3	3	3	3	3	3	3	3	3	
3 ## 1	[5,]	2	1	1	1	2	2	1	1	1	2	2	
## 3	[6,]	3	3	3	3	3	3	3	3	3	3	3	
## 3	[7,]	3	3	3	3	3	3	3	3	3	3	3	
## 3	[8,]	2	3	3	3	2	2	3	3	3	2	2	
## 2	[9,]	3	2	2	2	3	3	2	2	2	3	3	
## [,4	91	[,38]	[,39]	[,40]	[,41]	[,42]	[,43]	[,44]	[,45]	[,46]	[,47]	[,48]	
## 3	[1,]	3	2	3	3	2	2	3	3	2	3	2	
##	[2,]	2	2	2	2	2	2	2	2	2	2	2	

2 ##	[3,]	2	2	2	2	2	2	2	2	2	2	2
2 ##	[4,]	3	3	3	3	3	3	3	3	3	3	3
3 ## 1	[5,]	1	2	1	1	2	2	1	1	2	1	2
## 3	[6,]	3	3	3	3	3	3	3	3	3	3	3
## 3	[7,]	3	3	3	3	3	3	3	3	3	3	3
## 3	[8,]	3	2	3	3	2	2	3	3	2	3	2
## 2	[9,]	2	3	2	2	3	3	2	2	3	2	3
## [,6:	1]	[,50]	[,51]	[,52]	[,53]	[,54]	[,55]	[,56]	[,57]	[,58]	[,59]	[,60]
## 2	[1,]	3	1	1	1	1	1	1	1	2	1	1
## 3	[2,]	2	1	3	1	3	3	3	3	3	3	3
## 3	[3,]	2	1	3	1	3	3	3	3	3	3	3
## 2	[4,]	3	1	2	1	2	2	2	2	2	2	2
## 2	[5,]	1	3	3	3	3	3	3	3	2	3	3
## 2	[6,]	3		2	1	2	2	2	2	2	2	2
## 1	[7,]	3		1	2	1	1	1	1	1	1	1
## 2	[8,]	3	1	1	1	1	1	1	1	2	1	1
## 3	[9,]	2	1	1	1	1	1	1	1	3	1	1
## [,73	3]	[,62]	[63]	[,64]	[,65]	[,66]	[,67]	[80,]	[,69]	[,/0]	[,/1]	[,/2]
## 1	[1,]	1	1	1	1	1	1	1	1	1	1	1
## 3	[2,]	3		3	3	3	3	3	3	3	3	3
## 3	[3,]	3	3	3	3		3	3	3	3	3	3
## 2	[4,]	2	2	2	2	2	2	2	2	2	2	2
## 3	[5,]	3		3	3	3	3	3	3	3	3	3
## 2	[6,]	2		2	2		2	2		2		2
##	[7,]	1	1	1	1	1	1	1	1	1	1	1

1												
## 1	[8,]	1	1	1	1	1	1	1	1	1	1	1
## 1	[9,]	1	1	1	1	1	1	1	1	1	1	1
## [,8!	51	[,74]	[,75]	[,76]	[,77]	[,78]	[,79]	[,80]	[,81]	[,82]	[,83]	[,84]
## 1	[1,]	1	1	1	1	1	1	1	1	1	1	1
## 3	[2,]	3	3	3	3	1	3	3	3	3	3	3
## 3	[3,]	3	3	3	3	1	3	3	3	3	3	3
## 2	[4,]	2	2	2	2	1	2	2	2	2	2	2
## 3	[5,]	3	3	3	3	3	3	3	3	3	3	3
## 2	[6,]	2	2	2	2	1	2	2	2	2	2	2
## 1	[7,]	1	1	1	1	2	1	1	1	1	1	1
## 1	[8,]	1	1	1	1	1	1	1	1	1	1	1
## 1	[9,]	1	1	1	1	1	1	1	1	1	1	1
##	- 7	[,86]	[,87]	[,88]	[,89]	[,90]	[,91]	[,92]	[,93]	[,94]	[,95]	[,96]
[,9] ##	7] [1,]	[,86] 1	[,87] 1	[,88]	[,89] 1	[,90] 1	[,91] 1	[,92] 1	[,93] 1	[,94] 2	[,95] 1	[,96] 1
[,97 ## 1 ##	_											
[,97 ## 1 ## 3 ##	[1,]	1	1	1	1	1	1	1	1	2	1	1
[,97 ## 1 ## 3 ##	[1,]	1	1	1	1	1	1	1	1	2	1	1
[,97 ## 1 ## 3 ## 3 ## 2	[1,] [2,] [3,]	1 3 3	1 3 3	1 3 3	1 3 3	1 3 3	1 3 3	1 3 3	1 3 3	2 3 3	1 3 3	1 3 3
[,97 ## 1 ## 3 ## 2 ## 3 ##	[1,] [2,] [3,] [4,]	1 3 3 2	1 3 3 2	1 3 3 2	1 3 3 2	1 3 3 2 3	1 3 3 2	1 3 3 2	1 3 3 2	2 3 3 2	1 3 3 2	1 3 3 2
[,97 ## 1 ## 3 ## 2 ## 3 ## 2 ##	[1,] [2,] [3,] [4,] [5,]	1 3 3 2 3	1 3 3 2 3	1 3 3 2 3	1 3 3 2 3	1 3 3 2 3	1 3 3 2 3	1 3 3 2 3	1 3 3 2 3	2 3 3 2 2	1 3 3 2 3	1 3 3 2 3
[,97 ## 1 ## 3 ## 2 ## 3 ## 2	[1,] [2,] [3,] [4,] [5,] [6,]	1 3 2 3 2	1 3 2 3 2	1 3 2 3 2	1 3 2 3 2	1 3 2 3 2	1 3 2 3 2	1 3 2 3 2	1 3 2 3 2	2 3 3 2 2 2	1 3 2 3 2	1 3 3 2 3 2
[,97 ## 1 ## 3 ## 2 ## 3 ## 2 ## 1 ##	[1,] [2,] [3,] [4,] [5,] [6,]	1 3 3 2 3 2	1 3 3 2 3 2	1 3 3 2 3 2	1 3 3 2 3 2	1 3 3 2 3 2	1 3 3 2 3 2	1 3 3 2 3 2	1 3 3 2 3 2	2 3 3 2 2 2	1 3 3 2 3 2	1 3 3 2 3 2 1
[,97] #1 ## 3 ## 3 ## 2 ## 1 ## 1 ## 1 ##	[1,] [2,] [3,] [4,] [5,] [6,] [7,] [8,]	1 3 2 3 2 1 1 1 [,98]	1 3 2 3 2 1 1 1 [,99]	1 3 2 3 2 1 1 1 [,100]	1 3 2 3 2 1 1 1	1 3 2 3 2 1 1 1 [,16	1 3 3 2 3 2 1 1 1 92] [,1	1 3 2 3 2 1 1 1 103] [1 3 2 3 2 1 1 1 ,104] [2 3 3 2 2 2 1 2 3 [,105]	1 3 2 3 2 1 1 1 [,106]	1 3 3 2 3 2 1 1 1 [,107]
[,97] ## 1 ## 3 ## 2 ## 1 ## 1 ## 1 ## 1 ##	[1,] [2,] [3,] [4,] [5,] [6,] [7,] [8,] [9,]	1 3 2 3 2 1 1 1 [,98]	1 3 3 2 3 2 1 1 1 [,99]	1 3 3 2 3 2 1 1 1 [,100]	1 3 2 3 2 1 1 1 [,103	1 3 2 3 2 1 1 [,16	1 3 3 2 3 2 1 1 1 32] [,1	1 3 2 3 2 1 1 1 1,03] [,	1 3 2 3 2 1 1 1,104] [2 3 3 2 2 2 1 2 3 [,105] 1	1 3 3 2 3 2 1 1 1 [,106]	1 3 3 2 3 2 1 1 1 [,107]
[,# 1 ## 3 ## 2 ## 1 ## 1 ## 1 ## 1 ## 1 ##	[1,] [2,] [3,] [4,] [5,] [6,] [7,] [8,] [9,]	1 3 3 2 1 1 1 [,98] 1 3	1 3 3 2 3 2 1 1 1 [,99] 2 3	1 3 3 2 3 2 1 1 1 [,100]	1 3 2 3 2 1 1 1 [,103	1 3 2 3 2 1 1 1 [,16	1 3 3 2 3 2 1 1 1 3 2 [,1]	1 3 2 3 2 1 1 1 103] [,	1 3 2 3 2 1 1 1,104] [2 3 2 2 2 1 2 3 [,105] 1 1	1 3 2 3 2 1 1 1 [,106]	1 3 3 2 3 2 1 1 1 1 1 1 1 3
[,97 ## 1 ## 3 ## 2 ## 1 ## 1 ## 1 ##	[1,] [2,] [3,] [4,] [5,] [6,] [7,] [8,] [9,]	1 3 2 3 2 1 1 1 [,98]	1 3 3 2 3 2 1 1 1 [,99]	1 3 3 2 3 2 1 1 1 [,100]	1 3 2 3 2 1 1 1 [,103	1 3 2 3 2 1 1 [,16	1 3 3 2 3 2 1 1 1 32] [,1	1 3 2 3 2 1 1 1 1,03] [,	1 3 2 3 2 1 1 1,104] [2 3 3 2 2 2 1 2 3 [,105] 1	1 3 3 2 3 2 1 1 1 [,106]	1 3 3 2 3 2 1 1 1 1 1 1 1 1 3 3 3

## ##	[5,] [6,]	3 2	2 2	3 2	3 1	3 2	3 1	3 1	3 1	3 1	3 2
##	[7,]	1	1	1	2	1	2	2	2	2	1
## ##	[8,] [9,]	1 1	2 3	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
##	[د ح			[,110]	_		_			[,116]	_
[,1											
##	[1,]	1	1	1	1	1	1	1	1	1	
1 ##	[2,]	1	1	1	1	1	1	3	1	1	
1 ##	[3,]	1	1	1	1	1	1	3	1	1	
1 ##	[4,]	1	1	1	1	1	1	2	1	1	
1 ##	[5,]	3	3	3	3	3	3	3	3	3	
3 ##	[6,]	1	1	1	1	1	1	2	1	1	
1 ##	[7,]	2	2	2	2	2	2	1	2	2	
2 ##	[8,]	1	1	1	1	1	1	1	1	1	
1 ##	[9,]	1	1	1	1	1	1	1	1	1	
1 ##		[11Q]	[110]	[120]	[121]	[122]	[122]	[12 <i>4</i>]	[,125]	[126]	
"" [,1	271	[,110]	[,119]	[,120]	[,121]	[,122]	[,123]	[,124]	[,123]	[,120]	
## 1	[1,]	1	1	1	1	1	1	1	1	1	
## 3	[2,]	1	1	3	1	3	1	3	1	1	
##	[3,]	1	1	3	1	3	1	3	1	1	
##	[4,]	1	1	2	1	2	1	2	1	1	
## 3	[5,]	3	3	3	3	3	3	3	3	3	
## 2	[6,]	1	1	2	1	2	1	2	1	1	
## 1	[7,]	2	2	1	2	1	2	1	2	2	
## 1	[8,]	1	1	1	1	1	1	1	1	1	
## 1	[9,]	1	1	1	1	1	1	1	1	1	
## [,1]	371	[,128]	[,129]	[,130]	[,131]	[,132]	[,133]	[,134]	[,135]	[,136]	
## 1	[1,]	1	1	1	1	1	1	1	1	1	
##	[2,]	3	1	1	1	1	1	3	3	1	

_											
1	[2	,	1	1	1	1	1	3	3	1	
## 1	[3,]	3	1	1	1	1	1	3	3	1	
##	[4,]	2	1	1	1	1	1	2	2	1	
1	[נידן	_	-	_	_	-	_	_	_	_	
##	[5,]	3	3	3	3	3	3	3	3	3	
3	. , ,										
##	[6,]	2	1	1	1	1	1	2	2	1	
1											
##	[7,]	1	2	2	2	2	2	1	1	2	
2 ##	Γο 1	1	1	1	1	1	1	1	1	1	
1	[8,]										
##	[9,]	1	1	1	1	1	1	1	1	1	
1	. ,,										
##		[,138]	[,139]	[,140]	[,141]	[,142]	[,143]	[,144]	[,145]	[,146]	
[,14											
##	[1,]	1	1	1	1	1	1	1	1	1	
1	[n]	1	2	1	1	1	2	1	1	1	
## 3	[2,]	1	3	1	1	1	3	1	1	1	
##	[3,]	1	3	1	1	1	3	1	1	1	
3	[-,]	_		_	_	_		_	_	_	
##	[4,]	1	2	1	1	1	2	1	1	1	
2											
##	[5,]	3	3	3	3	3	3	3	3	3	
3 ##	Γ <i>ς</i> 1	1	2	1	1	1	2	1	1	1	
2	[6,]		2	Τ.	т		2	1	Τ.		
##	[7,]	2	1	2	2	2	1	2	2	2	
1	. , ,										
##	[8,]	1	1	1	1	1	1	1	1	1	
1											
##	[9,]	1	1	1	1	1	1	1	1	1	
1 ##		[1/10]	[140]	[150]							
##	[1,]	[,146] 1	[,149] 1	[,150]							
##	$\begin{bmatrix} 2, \end{bmatrix}$	1	1	3							
##	[3,]	1	1	3							
##	[4,]	1	1	2							
##	[5,]	3	3	3							
##	[6,]	1	1	2							
##	[7,]	2	2	1							
##	[8,]	1	1	1							
##	[9,]	1	1	1							



##		[,1]	[,2] [,3][,	ا,] [4	5] [,6]	[,7]	[8,]	[,9]	[,1	.0] [,	11] [,	12]	[,13	3]
##	[1,]	1	1	1	1	1	1	1	1	1		1	1	1	_	1
##	[2,]	3	2	2	2	3	3	3	3	2		2	3	3		2
##	[3,]	2	2	2	2	2	2	2	2	2		2	2	2		2
##	[4,]	2	2	2	2	2	2	2	2	2		2	2	2		2
##	[5,]	3	3	3	3	3	3	3	3	3		3	3	3		3
##	[6,]	1	2	2	2	1	1	1	1	2		2	1	1		2
##	[7,]	3	3	3	3	3	3	3	3	3		3	3	3		3
##	[8,]	3	3	3	3	3	3	3	3	3		3	3	3		3
##	[9,]	3	2	2	2	3	3	3	3	2		2	3	3		2
##	[10,]	2	3	3	3	2	2	2	2	3		3	2	2		3
##		[,14]	[,15]	[,16]	[,17] [,:	18]	[,19]	[,20)][,	21]	[,22]	[,23]	[,2	4]	
[,2	5]						_				_				-	
##	[1,]	1	1	1	:	1	1	1		1	1	1	. 1	L	1	
1																
##	[2,]	2	3	3		3	3	3	,	3	3	3	3	3	3	
3																
##	[3,]	2	2	2		2	2	2	<u>.</u>	2	2	2	. 2	<u>)</u>	2	
2																
##	[4,]	2	2	2		2	2	2		2	2	2	. 2	<u> </u>	2	
2																
##	[5,]	3	3	3		3	3	3	,	3	3	3	3	3	3	
3																
##	[6,]	2	1	1		1	1	1		1	1	1	. 1	L	1	
1	. , .															
##	[7,]	3	3	3		3	3	3		3	3	3	3	3	3	
3																

## 3	[8,]	3	3	3	3	3	3	3	3	3	3	3
## 3	[9,]	2	3	3	3	3	3	3	3	3	3	3
	[10,]	3	2	2	2	2	2	2	2	2	2	2
##	71	[,26]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]	[,35]	[,36]
[,3°	[1,]	1	1	1	1	1	1	1	1	1	1	1
1 ##	[2,]	2	3	3	3	2	2	3	3	3	2	2
3 ##	[3,]	2	2	2	2	2	2	2	2	2	2	2
2 ##	[4,]	2	2	2	2	2	2	2	2	2	2	2
2 ##	[5,]	3	3	3	3	3	3	3	3	3	3	3
3 ##	[6,]	2	1	1	1	2	2	1	1	1	2	2
1 ##	[7,]	3	3	3	3	3	3	3	3	3	3	3
3 ##	[8,]	3	3	3	3	3	3	3	3	3	3	3
3 ##	[9,]	2	3	3	3	2	2	3	3	3	2	2
	[10,]	3	2	2	2	3	3	2	2	2	3	3
2 ##		[,38]	[,39]	[,40]	[,41]	[,42]	[,43]	[,44]	[,45]	[,46]	[,47]	[,48]
[,4 ⁹	9] [1,]	1	1	1	1	1	1	1	1	1	1	1
1 ##	[2,]	3	2	3	3	2	2	3	3	2	3	2
3 ##	[3,]	2	2	2	2	2	2	2	2	2	2	2
2 ##	[4,]	2	2	2	2	2	2	2	2	2	2	2
2 ##	[5,]	3	3	3	3	3	3	3	3	3	3	3
3 ##	[6,]	1	2	1	1	2	2	1	1	2	1	2
1 ##	[7,]	3	3	3	3	3	3	3	3	3	3	3
3 ##	[8,]	3	3	3	3	3	3	3	3	3	3	3
3 ##	[9,]	3	2	3	3	2	2	3	3	2	3	2
3	[10,]	2	3	2	2		3	2	2	3	2	3
2	[10,]	2	3	2	2	3	3	2	2	3	2	J

##	4]	[,50]	[,51]	[,52]	[,53]	[,54]	[,55]	[,56]	[,57]	[,58]	[,59]	[,60]	
[,6 ##	1] [1,]	1	3	2	3	2	2	2	2	2	2	2	
2 ##	[2,]	3	1	1	1	1	1	1	1	2	1	1	
2 ##	[3,]	2	1	3	1	3	3	3	3	3	3	3	
3 ##	[4,]	2	1	3	1	3	3	3	3	3	3	3	
3 ## 2	[5,]	3	1	2	1	2	2	2	2	2	2	2	
2 ## 2	[6,]	1	3	3	3	3	3	3	3	2	3	3	
## 2	[7,]	3	1	2	1	2	2	2	2	2	2	2	
## 1	[8,]	3	2	1	2	1	1	1	1	1	1	1	
## 2	[9,]	3	1	1	1	1	1	1	1	2	1	1	
	[10,]	2	1	1	1	1	1	1	1	3	1	1	
## [,7	31	[,62]	[,63]	[,64]	[,65]	[,66]	[,67]	[,68]	[,69]	[,70]	[,71]	[,72]	
## 2	[1,]	2	2	2	2	2	2	2	2	2	2	2	
## 1	[2,]	1	1	1	1	1	1	1	1	1	1	1	
## 3	[3,]	3	3	3	3	3	3	3	3	3	3	3	
## 3	[4,]	3	3	3	3	3	3	3	3	3	3	3	
## 2	[5,]	2	2	2	2	2	2	2	2	2	2	2	
## 3	[6,]	3	3	3	3	3	3	3	3	3	3	3	
## 2	[7,]	2	2	2	2	2	2	2	2	2	2	2	
## 1	[8,]	1	1	1	1	1	1	1	1	1	1	1	
## 1	[9,]	1	1	1	1	1	1	1	1	1	1	1	
## 1	[10,]	1	1	1	1	1	1	1	1	1	1	1	
## [,8	5]	[,74]	[,75]	[,76]	[,77]	[,78]	[,79]	[,80]	[,81]	[,82]	[,83]	[,84]	
## 2	[1,]	2	2	2	2	3	2	2	2	2	2	2	
## 1	[2,]	1	1	1	1	1	1	1	1	1	1	1	

##	[3,]	3	3	3	3	1		3	3	3	3	3	3
3 ##	[4,]	3	3	3	3	1		3	3	3	3	3	3
3 ##	[5,]	2	2	2	2	1		2	2	2	2	2	2
2 ##	[6,]	3	3	3	3	3		3	3	3	3	3	3
3													
## 2	[7,]	2	2	2	2	1		2	2	2	2	2	2
## 1	[8,]	1	1	1	1	2		1	1	1	1	1	1
## 1	[9,]	1	1	1	1	1		1	1	1	1	1	1
	[10,]	1	1	1	1	1		1	1	1	1	1	1
##		[,86]	[,87]	[,88]	[,89]	[,90]	[,91] [,9	2]	[,93]	[,94]	[,95]	[,96]
[,9 ¹ ##	7] [1,]	2	2	2	2	2		2	2	2	2	2	2
2 ##	[2,]	1	1	1	1	1		1	1	1	2	1	1
1 ##	[3,]	3	3	3	3	3		3	3	3	3	3	3
3 ##	[4,]	3	3	3	3	3		3	3	3	3	3	3
3 ##	[5,]	2	2	2	2	2		2	2	2	2	2	2
2 ##		3	3	3	3	3		3	3	3	2	3	3
3	[6,]												
## 2	[7,]	2	2	2	2	2		2	2	2	2	2	2
## 1	[8,]	1	1	1	1	1		1	1	1	1	1	1
## 1	[9,]	1	1	1	1	1		1	1	1	2	1	1
	[10,]	1	1	1	1	1		1	1	1	3	1	1
##		[,98]	[,99]	[,100]	[,101	L] [,10	02] [,103]	[,	104]	[,105]	[,106]	[,107]
##	[1,]	2	2	2	<u> </u>	3	2	3	3	3	3	3	3 2
##	[2,]	1	2	1		1	1	1		1	1	1	
##	[3,]	3	3	3		1	3	1		1	1	1	
##	[4,]	3	3	3		1	3	1		1	1	1	
##	[5,]	2	2	2		1	2	1		1	1	1	L 2
##	[6,]	3 2	2	3 2	3	3	3	3		3	3	3	
##	[7,]		2			1	2	1		1	1	1	
##	[8,]	1	1	1		2	1	2		2	2	2	
##	[9,]	1	2	1		1	1	1		1	1	1	
	[10,]	1	3	1	='	1	1	1		1	1	1	- — —
##		[,108]	[,109	9] [,11	.0] [,1	L 11] [,112]	[,11	.3]	[,114]] [,11] [,11	[6]

[,1	171										
##	[1,]	3	3	3	3	3	3	2	3	3	
## 1	[2,]	1	1	1	1	1	1	1	1	1	
## 1	[3,]	1	1	1	1	1	1	3	1	1	
## 1	[4,]	1	1	1	1	1	1	3	1	1	
## 1	[5,]	1	1	1	1	1	1	2	1	1	
## 3	[6,]	3	3	3	3	3	3	3	3	3	
## 1	[7,]	1	1	1	1	1	1	2	1	1	
## 2	[8,]	2	2	2	2	2	2	1	2	2	
## 1	[9,]	1	1	1	1	1	1	1	1	1	
	[10,]	1	1	1	1	1	1	1	1	1	
## [,1	271	[,118]	[,119]	[,120]	[,121]	[,122]	[,123]	[,124]	[,125]	[,126]	
## 2	[1,]	3	3	2	3	2	3	2	3	3	
## 1	[2,]	1	1	1	1	1	1	1	1	1	
## 3	[3,]	1	1	3	1	3	1	3	1	1	
## 3	[4,]	1	1	3	1	3	1	3	1	1	
##	[5,]	1	1	2	1	2	1	2	1	1	
## 3	[6,]	3	3	3	3	3	3	3	3	3	
## 2	[7,]	1	1	2	1	2	1	2	1	1	
## 1	[8,]	2	2	1	2	1	2	1	2	2	
## 1	[9,]	1	1	1	1	1	1	1	1	1	
	[10,]	1	1	1	1	1	1	1	1	1	
## [,1	37]	[,128]	[,129]	[,130]	[,131]	[,132]	[,133]	[,134]	[,135]	[,136]	
##	[1,]	2	3	3	3	3	3	2	2	3	
## 1	[2,]	1	1	1	1	1	1	1	1	1	
##	[3,]	3	1	1	1	1	1	3	3	1	

1											
##	[4,]	3	1	1	1	1	1	3	3	1	
1											
##	[5,]	2	1	1	1	1	1	2	2	1	
1	. , ,										
##	[6,]	3	3	3	3	3	3	3	3	3	
3	[0,]	,	,	,	,	,	,	,	,	,	
	Г э 1	า	1	1	1	1	1	2	2	1	
##	[7,]	2	1	1	1	1	1	2	2	1	
1		_	_		_		_		_	_	
##	[8,]	1	2	2	2	2	2	1	1	2	
2											
##	[9,]	1	1	1	1	1	1	1	1	1	
1											
##	[10,]	1	1	1	1	1	1	1	1	1	
1											
##		[,138]	[,139]	[,140]	[,141]	[,142]	[,143]	[,144]	[,145]	[,146]	
	47]	., .	., .	., .	., .	., .	., .	., .		., .	
##	[1,]	3	2	3	3	3	2	3	3	3	
2	[-)]	_	_		_		_		_	_	
##	[2,]	1	1	1	1	1	1	1	1	1	
1	[د ک]	_	_			_	_	_		_	
##	гол	1	2	1	1	1	2	1	1	1	
	[3,]	1	3	1	1	1	3	1	1	1	
3	F 4 3		_				_	_			
##	[4,]	1	3	1	1	1	3	1	1	1	
3											
##	[5,]	1	2	1	1	1	2	1	1	1	
2											
##	[6,]	3	3	3	3	3	3	3	3	3	
3											
##	[7,]	1	2	1	1	1	2	1	1	1	
2											
##	[8,]	2	1	2	2	2	1	2	2	2	
1											
##	[9,]	1	1	1	1	1	1	1	1	1	
1	L ,]	_	_	_	_	_	_	_	_	_	
	[10,]	1	1	1	1	1	1	1	1	1	
1	[,]	-	-	•	•	_	_	_	•	•	
		[1/12]	[,149]	[150]							
##											
	[1,]	3	3	2							
##	[2,]	1	1	1							
##	[3,]	1	1	3							
##	[4,]	1	1	3							
##	[5,]	1	1	2							
##	[6,]	3	3	3 2							
##	[7,]	1	1	2							
##	[8,]	2	2	1							
##	[9,]	1	1	1							
##	[10,]	1	1	1							

It shows the importance of multiple iteration and averaging them

End of the Script