## RWorksheet5\_Frias

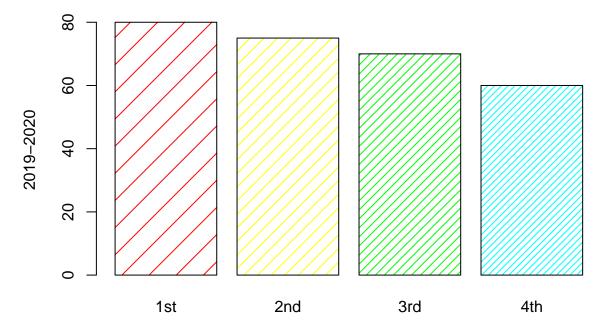
#### 2022-12-04

#### R Markdown

```
#1. The table shows the enrollment of BS in Computer Science , SY 2010-2011.
#a. Plot the data using a bar graph. Write the codes and copy the result.

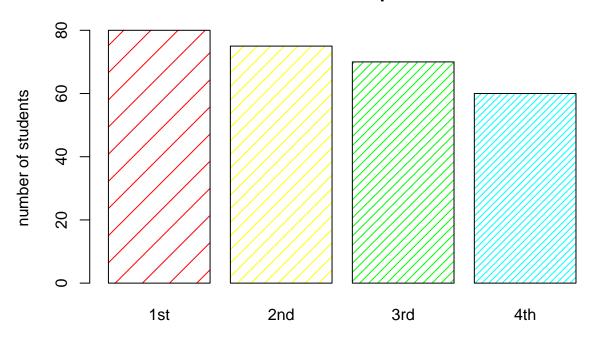
BSCS <- c (80, 75, 70, 60)
barplot(BSCS, col = rainbow(6), density = c(5, 10, 15, 20),
    main = "BSCS",
    xlab = "Course Year",
    ylab = "2019-2020", names.arg = c("1st", "2nd", "3rd", "4th"))</pre>
```

#### **BSCS**



#### Course Year

## **Enrollment of BS Computer Science**



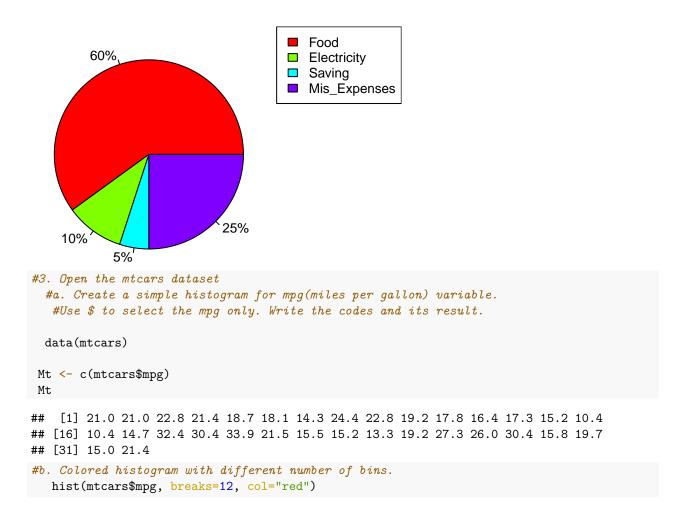
#2. The monthly income of De Jesus family was spent on the following.

cex = 0.8, fill = rainbow(4))

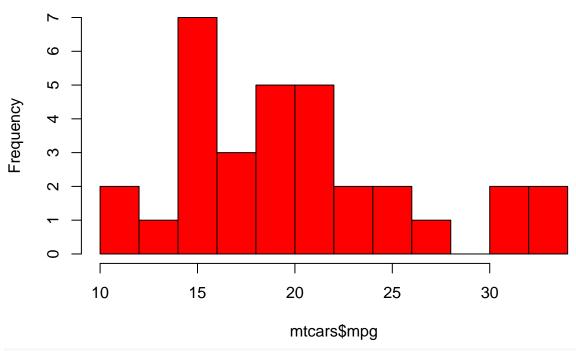
#### Curriculum Year

```
#60% on Food, 10% on electricity,5% for savings, and
    # 25% for other miscellaneous expenses.
 #a. Create a table for the above scenario. Write the codes and its result.
 Income = matrix(c("60\%", "10\%", "5\%", "25\%"), ncol= 4, byrow=TRUE)
   colnames(Income) <- c('Food', 'Electricity', 'Savings', 'Mis_expenses')</pre>
   row.names(Income) <- c( 'Expenses')</pre>
   Income_De_Jesus_Fam <- as.table(Income)</pre>
   Income_De_Jesus_Fam
##
            Food Electricity Savings Mis_expenses
## Expenses 60% 10%
                              5%
#b. Plot the data using Pie chart. Add labels, colors and legend.
   #Write the codes and its result.
 A \leftarrow c(0.6, 0.1, 0.05, 0.25)
  a \leftarrow round(A/sum(A) * 100, 1)
  a <- paste(a, "%", sep = "")
 pie(A, labels = a, cex = 0.8, col = rainbow(4),
             main = "De Jesus Family Expenses")
  legend("topright", c("Food", "Electricity", "Saving", "Mis_Expenses"),
```

### **De Jesus Family Expenses**

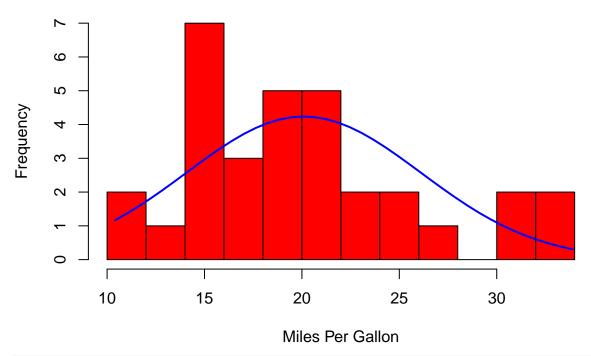


## Histogram of mtcars\$mpg



#Note: breaks= controls the number of bin

## **Histogram with Normal Curve**



```
#4. Open the iris dataset. create a subset for each species.
#a. create the code and its result.

data("iris")

a <- data.frame(iris)
a</pre>
```

##		Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
##	1	5.1	3.5	1.4	0.2	setosa
##	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
##	7	4.6	3.4	1.4	0.3	setosa
##	8	5.0	3.4	1.5	0.2	setosa
##	9	4.4	2.9	1.4	0.2	setosa
##	10	4.9	3.1	1.5	0.1	setosa
##	11	5.4	3.7	1.5	0.2	setosa
##	12	4.8	3.4	1.6	0.2	setosa
##	13	4.8	3.0	1.4	0.1	setosa
##	14	4.3	3.0	1.1	0.1	setosa
##	15	5.8	4.0	1.2	0.2	setosa
##	16	5.7	4.4	1.5	0.4	setosa
##	17	5.4	3.9	1.3	0.4	setosa
##	18	5.1	3.5	1.4	0.3	setosa
##	19	5.7	3.8	1.7	0.3	setosa
##	20	5.1	3.8	1.5	0.3	setosa
##	21	5.4	3.4	1.7	0.2	setosa

	22	5.1	3.7	1.5	0.4	setosa
##	23	4.6	3.6	1.0	0.2	setosa
##	24	5.1	3.3	1.7	0.5	setosa
##	25	4.8	3.4	1.9	0.2	setosa
##	26	5.0	3.0	1.6	0.2	setosa
##	27	5.0	3.4	1.6	0.4	setosa
##	28	5.2	3.5	1.5	0.2	setosa
##	29	5.2	3.4	1.4	0.2	setosa
##	30	4.7	3.2	1.6	0.2	setosa
##	31	4.8	3.1	1.6	0.2	setosa
##	32	5.4	3.4	1.5	0.4	setosa
##	33	5.2	4.1	1.5	0.1	
						setosa
##	34	5.5	4.2	1.4	0.2	setosa
##	35	4.9	3.1	1.5	0.2	setosa
##	36	5.0	3.2	1.2	0.2	setosa
##	37	5.5	3.5	1.3	0.2	setosa
##	38	4.9	3.6	1.4	0.1	setosa
##	39	4.4	3.0	1.3	0.2	setosa
##	40	5.1	3.4	1.5	0.2	setosa
##	41	5.0	3.5	1.3	0.3	setosa
##	42	4.5	2.3	1.3	0.3	setosa
##	43	4.4	3.2	1.3	0.2	setosa
##	44	5.0	3.5	1.6	0.6	setosa
##	45	5.1	3.8	1.9	0.4	setosa
##	46	4.8	3.0	1.4	0.3	setosa
##	47	5.1	3.8	1.6	0.2	setosa
##	48	4.6	3.2	1.4	0.2	setosa
##	49	5.3	3.7	1.5	0.2	setosa
##	50	5.0	3.3	1.4	0.2	setosa
##	51	7.0	3.2	4.7	1.4 ver	
##	52	6.4	3.2	4.5	1.5 ver	
##	53	6.9	3.1	4.9		sicolor
##	54	5.5	2.3	4.0		sicolor
##	55	6.5	2.8	4.6		sicolor
##	56	5.7	2.8	4.5	1.3 ver	
##	57	6.3	3.3	4.7	1.6 ver	
##		4.9	2.4	3.3	1.0 ver	
##	59	6.6	2.9	4.6	1.3 ver	sicolor
##	60	5.2	2.7	3.9	1.4 ver	sicolor
##	61	5.0	2.0	3.5	1.0 ver	sicolor
##	62	5.9	3.0	4.2	1.5 ver	sicolor
##	63	6.0	2.2	4.0	1.0 ver	sicolor
##	64	6.1	2.9	4.7	1.4 ver	sicolor
##	65	5.6	2.9	3.6	1.3 ver	sicolor
##	66	6.7	3.1	4.4	1.4 ver	
##	67	5.6	3.0	4.5	1.5 ver	
##	68	5.8	2.7	4.1	1.0 ver	
##	69	6.2	2.2	4.5	1.5 ver	
##	70		2.5		1.1 ver	
		5.6		3.9		
##	71	5.9	3.2	4.8	1.8 ver	
##	72	6.1	2.8	4.0	1.3 ver	
	73	6.3	2.5	4.9	1.5 ver	
	74	6.1	2.8	4.7	1.2 ver	
##	<b>/</b> 5	6.4	2.9	4.3	1.3 ver	sicolor

## 76	6.6	3.0	4.4	1.4 versicolor
## 77	6.8	2.8	4.8	1.4 versicolor
## 78	6.7	3.0	5.0	1.7 versicolor
## 79	6.0	2.9	4.5	1.5 versicolor
## 80	5.7	2.6	3.5	1.0 versicolor
## 81	5.5	2.4	3.8	1.1 versicolor
## 82	5.5	2.4	3.7	1.0 versicolor
## 83	5.8	2.7	3.9	1.2 versicolor
## 84	6.0	2.7	5.1	1.6 versicolor
## 85	5.4	3.0	4.5	1.5 versicolor
## 86	6.0	3.4	4.5	1.6 versicolor
## 87	6.7	3.1	4.7	1.5 versicolor
## 88	6.3	2.3	4.4	1.3 versicolor
## 89	5.6	3.0	4.1	1.3 versicolor
## 90	5.5	2.5	4.0	1.3 versicolor
## 91	5.5	2.6	4.4	1.2 versicolor
## 92	6.1	3.0	4.6	1.4 versicolor
## 93	5.8	2.6	4.0	1.2 versicolor
## 94	5.0	2.3	3.3	1.0 versicolor
## 95	5.6	2.7	4.2	1.3 versicolor
## 96	5.7	3.0	4.2	1.2 versicolor
## 97	5.7	2.9	4.2	1.3 versicolor
## 98	6.2	2.9	4.3	1.3 versicolor
## 99	5.1	2.5	3.0	1.1 versicolor
## 100	5.7	2.8	4.1	1.3 versicolor
## 101	6.3	3.3	6.0	2.5 virginica
## 102	5.8	2.7	5.1	1.9 virginica
## 103	7.1	3.0	5.9	2.1 virginica
## 104	6.3	2.9	5.6	1.8 virginica
## 105	6.5	3.0	5.8	2.2 virginica
## 106	7.6	3.0	6.6	2.1 virginica
## 107	4.9	2.5	4.5	1.7 virginica
## 108	7.3	2.9	6.3	1.8 virginica
## 109	6.7	2.5	5.8	1.8 virginica
## 110	7.2	3.6	6.1	2.5 virginica
## 111	6.5	3.2	5.1	2.0 virginica
## 112	6.4	2.7	5.3	1.9 virginica
## 113	6.8	3.0	5.5	2.1 virginica
## 114	5.7	2.5	5.0	2.0 virginica
## 115	5.8	2.8	5.1	2.4 virginica
## 116	6.4	3.2	5.3	2.3 virginica
## 117	6.5	3.0	5.5	1.8 virginica
## 118	7.7	3.8	6.7	2.2 virginica
## 119	7.7	2.6	6.9	2.3 virginica
## 120	6.0	2.2	5.0	1.5 virginica
## 121	6.9	3.2	5.7	2.3 virginica
## 122	5.6	2.8	4.9	2.0 virginica
## 123	7.7	2.8	6.7	2.0 virginica
## 124	6.3	2.7	4.9	1.8 virginica
## 125	6.7	3.3	5.7	2.1 virginica
## 126	7.2	3.2	6.0	1.8 virginica
## 127	6.2	2.8	4.8	1.8 virginica
## 128	6.1	3.0	4.9	1.8 virginica
## 129	6.4	2.8	5.6	2.1 virginica

##	130	7.2	3.0	5.8	1.6	virginica
##	131	7.4	2.8	6.1	1.9	virginica
##	132	7.9	3.8	6.4	2.0	virginica
##	133	6.4	2.8	5.6	2.2	virginica
##	134	6.3	2.8	5.1	1.5	virginica
##	135	6.1	2.6	5.6	1.4	virginica
##	136	7.7	3.0	6.1	2.3	virginica
##	137	6.3	3.4	5.6	2.4	virginica
##	138	6.4	3.1	5.5	1.8	virginica
##	139	6.0	3.0	4.8	1.8	virginica
##	140	6.9	3.1	5.4	2.1	virginica
##	141	6.7	3.1	5.6	2.4	virginica
##	142	6.9	3.1	5.1	2.3	virginica
##	143	5.8	2.7	5.1	1.9	virginica
##	144	6.8	3.2	5.9	2.3	virginica
##	145	6.7	3.3	5.7	2.5	virginica
##	146	6.7	3.0	5.2	2.3	virginica
##	147	6.3	2.5	5.0	1.9	virginica
##	148	6.5	3.0	5.2	2.0	virginica
##	149	6.2	3.4	5.4	2.3	virginica
##	150	5.9	3.0	5.1	1.8	virginica

# asetosa <- data.frame(iris) asetosa</pre>

##		Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
##	1	5.1	3.5	1.4	0.2	setosa
##	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
##	7	4.6	3.4	1.4	0.3	setosa
##	8	5.0	3.4	1.5	0.2	setosa
##	9	4.4	2.9	1.4	0.2	setosa
##	10	4.9	3.1	1.5	0.1	setosa
##	11	5.4	3.7	1.5	0.2	setosa
##	12	4.8	3.4	1.6	0.2	setosa
##	13	4.8	3.0	1.4	0.1	setosa
##	14	4.3	3.0	1.1	0.1	setosa
##	15	5.8	4.0	1.2	0.2	setosa
##	16	5.7	4.4	1.5	0.4	setosa
##	17	5.4	3.9	1.3	0.4	setosa
##	18	5.1	3.5	1.4	0.3	setosa
##	19	5.7	3.8	1.7	0.3	setosa
##	20	5.1	3.8	1.5	0.3	setosa
##	21	5.4	3.4	1.7	0.2	setosa
##	22	5.1	3.7	1.5	0.4	setosa
##	23	4.6	3.6	1.0	0.2	setosa
##	24	5.1	3.3	1.7	0.5	setosa
##	25	4.8	3.4	1.9	0.2	setosa
##	26	5.0	3.0	1.6	0.2	setosa
##	27	5.0	3.4	1.6	0.4	setosa
##	28	5.2	3.5	1.5	0.2	setosa
##	29	5.2	3.4	1.4	0.2	setosa

## 30	4.7	3.2	1.6	0.2	setosa
## 31	4.8	3.1	1.6	0.2	setosa
## 32	5.4	3.4	1.5	0.4	setosa
## 33	5.2	4.1	1.5	0.1	setosa
## 34	5.5	4.2	1.4	0.2	setosa
## 35	4.9	3.1	1.5	0.2	setosa
## 36	5.0	3.2	1.2	0.2	setosa
## 37	5.5	3.5	1.3	0.2	setosa
## 38	4.9	3.6	1.4	0.1	setosa
## 39	4.4	3.0	1.3	0.2	setosa
## 40	5.1	3.4	1.5	0.2	setosa
## 41	5.0	3.5	1.3	0.3	setosa
## 42	4.5	2.3	1.3	0.3	setosa
## 43	4.4	3.2	1.3	0.2	setosa
## 44	5.0	3.5	1.6	0.6	setosa
## 45	5.1	3.8	1.9	0.4	setosa
## 46	4.8	3.0	1.4	0.3	setosa
## 47	5.1	3.8	1.6	0.2	setosa
## 48	4.6	3.2	1.4	0.2	setosa
## 49	5.3	3.7	1.5	0.2	setosa
## 50	5.0	3.3	1.4	0.2	setosa
## 51	7.0	3.2	4.7	1.4 v	rersicolor
## 52	6.4	3.2	4.5	1.5 v	ersicolor
## 53	6.9	3.1	4.9	1.5 τ	ersicolor
## 54	5.5	2.3	4.0	1.3 τ	rersicolor
## 55	6.5	2.8	4.6	1.5 τ	rersicolor
## 56	5.7	2.8	4.5	1.3 τ	rersicolor
## 57	6.3	3.3	4.7	1.6 v	rersicolor
## 58	4.9	2.4	3.3	1.0 v	rersicolor
## 59	6.6	2.9	4.6	1.3 t	ersicolor
## 60	5.2	2.7	3.9	1.4 v	rersicolor
## 61	5.0	2.0	3.5	1.0 v	rersicolor
## 62	5.9	3.0	4.2	1.5 τ	rersicolor
## 63	6.0	2.2	4.0	1.0 v	rersicolor
## 64	6.1	2.9	4.7	1.4 v	rersicolor
## 65	5.6	2.9	3.6	1.3 τ	rersicolor
## 66	6.7	3.1	4.4	1.4 v	rersicolor
## 67	5.6	3.0	4.5	1.5 τ	rersicolor
## 68	5.8	2.7	4.1	1.0 v	rersicolor
## 69	6.2	2.2	4.5	1.5 v	rersicolor
## 70	5.6	2.5	3.9	1.1 v	rersicolor
## 71	5.9	3.2	4.8	1.8 v	rersicolor
## 72	6.1	2.8	4.0	1.3 v	rersicolor
## 73	6.3	2.5	4.9	1.5 v	versicolor
## 74	6.1	2.8	4.7	1.2 v	versicolor
## 75	6.4	2.9	4.3	1.3 v	versicolor
## 76	6.6	3.0	4.4	1.4 v	versicolor
## 77	6.8	2.8	4.8	1.4 v	versicolor
## 78	6.7	3.0	5.0	1.7 v	rersicolor
## 79	6.0	2.9	4.5		ersicolor
## 80	5.7	2.6	3.5		ersicolor
## 81	5.5	2.4	3.8		rersicolor
## 82	5.5	2.4	3.7	1.0 v	rersicolor
## 83	5.8	2.7	3.9		ersicolor

## 84	6.0	2.7	5.1	1.6 versicolor
## 85	5.4	3.0	4.5	1.5 versicolor
## 86	6.0	3.4	4.5	1.6 versicolor
## 87	6.7	3.1	4.7	1.5 versicolor
## 88	6.3	2.3	4.4	1.3 versicolor
## 89	5.6	3.0	4.1	1.3 versicolor
## 90	5.5	2.5	4.0	1.3 versicolor
## 91	5.5	2.6	4.4	1.2 versicolor
## 92	6.1	3.0	4.6	1.4 versicolor
## 93	5.8	2.6	4.0	1.2 versicolor
## 94	5.0	2.3	3.3	1.0 versicolor
## 9 <del>1</del> ## 95	5.6	2.7	4.2	1.3 versicolor
## 96	5.7	3.0	4.2	1.2 versicolor
## 97	5.7	2.9	4.2	1.3 versicolor
## 98	6.2	2.9	4.3	1.3 versicolor
## 99	5.1	2.5	3.0	1.1 versicolor
## 100	5.7	2.8	4.1	1.3 versicolor
## 101	6.3	3.3	6.0	2.5 virginica
## 102	5.8	2.7	5.1	1.9 virginica
## 103	7.1	3.0	5.9	2.1 virginica
## 104	6.3	2.9	5.6	1.8 virginica
## 105	6.5	3.0	5.8	2.2 virginica
## 106	7.6	3.0	6.6	2.1 virginica
## 107	4.9	2.5	4.5	1.7 virginica
## 108	7.3	2.9	6.3	1.8 virginica
## 109	6.7	2.5	5.8	1.8 virginica
## 110	7.2	3.6	6.1	2.5 virginica
## 111	6.5	3.2	5.1	2.0 virginica
## 112	6.4	2.7	5.3	1.9 virginica
## 112				_
	6.8	3.0	5.5	_
## 114	5.7	2.5	5.0	2.0 virginica
## 115	5.8	2.8	5.1	2.4 virginica
## 116	6.4	3.2	5.3	2.3 virginica
## 117	6.5	3.0	5.5	1.8 virginica
## 118	7.7	3.8	6.7	2.2 virginica
## 119	7.7	2.6	6.9	2.3 virginica
## 120	6.0	2.2	5.0	1.5 virginica
## 121	6.9	3.2	5.7	2.3 virginica
## 122	5.6	2.8	4.9	2.0 virginica
## 123	7.7	2.8	6.7	2.0 virginica
## 124	6.3	2.7	4.9	1.8 virginica
## 125	6.7	3.3	5.7	2.1 virginica
## 126	7.2	3.2	6.0	1.8 virginica
## 127	6.2	2.8	4.8	1.8 virginica
## 128	6.1	3.0	4.9	1.8 virginica
## 129	6.4	2.8	5.6	2.1 virginica
## 130	7.2	3.0	5.8	1.6 virginica
## 131	7.4	2.8	6.1	1.9 virginica
## 131 ## 132	7.4	3.8	6.4	_
				_
## 133	6.4	2.8	5.6	2.2 virginica
## 134	6.3	2.8	5.1	1.5 virginica
## 135	6.1	2.6	5.6	1.4 virginica
## 136	7.7	3.0	6.1	2.3 virginica
## 137	6.3	3.4	5.6	2.4 virginica

##	138	6.4	3.1	5.5	1.8	virginica
##	139	6.0	3.0	4.8	1.8	virginica
##	140	6.9	3.1	5.4	2.1	virginica
##	141	6.7	3.1	5.6	2.4	virginica
##	142	6.9	3.1	5.1	2.3	virginica
##	143	5.8	2.7	5.1	1.9	virginica
##	144	6.8	3.2	5.9	2.3	virginica
##	145	6.7	3.3	5.7	2.5	virginica
##	146	6.7	3.0	5.2	2.3	virginica
##	147	6.3	2.5	5.0	1.9	virginica
##	148	6.5	3.0	5.2	2.0	virginica
##	149	6.2	3.4	5.4	2.3	virginica
##	150	5.9	3.0	5.1	1.8	virginica

aversicolor <- data.frame(iris)
 aversicolor</pre>

##		Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
##	1	5.1	3.5	1.4	0.2	setosa
##	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
##	7	4.6	3.4	1.4	0.3	setosa
	8	5.0	3.4	1.5	0.2	setosa
##	9	4.4	2.9	1.4	0.2	setosa
##	10	4.9	3.1	1.5	0.1	setosa
##	11	5.4	3.7	1.5	0.2	setosa
##	12	4.8	3.4	1.6	0.2	setosa
##	13	4.8	3.0	1.4	0.1	setosa
##	14	4.3	3.0	1.1	0.1	setosa
##	15	5.8	4.0	1.2	0.2	setosa
##	16	5.7	4.4	1.5	0.4	setosa
##	17	5.4	3.9	1.3	0.4	setosa
##	18	5.1	3.5	1.4	0.3	setosa
##	19	5.7	3.8	1.7	0.3	setosa
##	20	5.1	3.8	1.5	0.3	setosa
##	21	5.4	3.4	1.7	0.2	setosa
##	22	5.1	3.7	1.5	0.4	setosa
##	23	4.6	3.6	1.0	0.2	setosa
##	24	5.1	3.3	1.7	0.5	setosa
##	25	4.8	3.4	1.9	0.2	setosa
##	26	5.0	3.0	1.6	0.2	setosa
##	27	5.0	3.4	1.6	0.4	setosa
##	28	5.2	3.5	1.5	0.2	setosa
##	29	5.2	3.4	1.4	0.2	setosa
##	30	4.7	3.2	1.6	0.2	setosa
##	31	4.8	3.1	1.6	0.2	setosa
##	32	5.4	3.4	1.5	0.4	setosa
##	33	5.2	4.1	1.5	0.1	setosa
	34	5.5	4.2	1.4	0.2	setosa
##	35	4.9	3.1	1.5	0.2	setosa
##	36	5.0	3.2	1.2	0.2	setosa
##	37	5.5	3.5	1.3	0.2	setosa

	00	4 0	0.0	4 4	0 4	
##	38	4.9	3.6	1.4	0.1	setosa
##	39	4.4	3.0	1.3	0.2	setosa
	40	5.1	3.4	1.5	0.2	setosa
##	41	5.0	3.5	1.3	0.3	setosa
##	42	4.5	2.3	1.3	0.3	setosa
##	43	4.4	3.2	1.3	0.2	setosa
##	44	5.0	3.5	1.6	0.6	setosa
##	45	5.1	3.8	1.9	0.4	setosa
##	46	4.8	3.0	1.4	0.3	setosa
##	47	5.1	3.8	1.6	0.2	setosa
##	48	4.6	3.2	1.4	0.2	setosa
##	49	5.3	3.7	1.5	0.2	setosa
##	50	5.0	3.3	1.4	0.2	setosa
##	51	7.0	3.2	4.7	1.4 ver	sicolor
##	52	6.4	3.2	4.5	1.5 ver	sicolor
##	53	6.9	3.1	4.9	1.5 ver	sicolor
##	54	5.5	2.3	4.0	1.3 ver	sicolor
##	55	6.5	2.8	4.6	1.5 ver	sicolor
##	56	5.7	2.8	4.5	1.3 ver	sicolor
##	57	6.3	3.3	4.7	1.6 ver	sicolor
##	58	4.9	2.4	3.3	1.0 ver	sicolor
##	59	6.6	2.9	4.6	1.3 ver	sicolor
##	60	5.2	2.7	3.9	1.4 ver	sicolor
##	61	5.0	2.0	3.5	1.0 ver	sicolor
##	62	5.9	3.0	4.2	1.5 ver	sicolor
##	63	6.0	2.2	4.0	1.0 ver	sicolor
##	64	6.1	2.9	4.7	1.4 ver	sicolor
##	65	5.6	2.9	3.6	1.3 ver	sicolor
##	66	6.7	3.1	4.4	1.4 ver	sicolor
##	67	5.6	3.0	4.5	1.5 ver	sicolor
##	68	5.8	2.7	4.1	1.0 ver	sicolor
##	69	6.2	2.2	4.5	1.5 ver	sicolor
##	70	5.6	2.5	3.9	1.1 ver	sicolor
##	71	5.9	3.2	4.8	1.8 ver	sicolor
##	72	6.1	2.8	4.0	1.3 ver	sicolor
##	73	6.3	2.5	4.9	1.5 ver	sicolor
##	74	6.1	2.8	4.7	1.2 ver	sicolor
##	75	6.4	2.9	4.3	1.3 ver	sicolor
	76	6.6	3.0	4.4	1.4 ver	
	77	6.8	2.8	4.8	1.4 ver	sicolor
	78	6.7	3.0	5.0	1.7 ver	
	79	6.0	2.9	4.5	1.5 ver	sicolor
	80	5.7	2.6	3.5	1.0 ver	sicolor
	81	5.5	2.4	3.8	1.1 ver	sicolor
	82	5.5	2.4	3.7	1.0 ver	
	83	5.8	2.7	3.9	1.2 ver	
	84	6.0	2.7	5.1	1.6 ver	
	85	5.4	3.0	4.5	1.5 ver	
	86	6.0	3.4	4.5	1.6 ver	
	87	6.7	3.1	4.7	1.5 ver	
	88	6.3	2.3	4.4	1.3 ver	
##		5.6	3.0	4.1	1.3 ver	
##		5.5	2.5	4.0	1.3 ver	
##		5.5	2.6	4.4	1.2 ver	
II II	<b>-</b>	0.0	2.0		1.2 001	2100101

"" 00	0.4	0 0	4 0	
## 92	6.1	3.0	4.6	1.4 versicolor
## 93	5.8	2.6	4.0	1.2 versicolor
## 94	5.0	2.3	3.3	1.0 versicolor
## 95	5.6	2.7	4.2	1.3 versicolor
## 96	5.7	3.0	4.2	1.2 versicolor
## 97	5.7	2.9	4.2	1.3 versicolor
## 98	6.2	2.9	4.3	1.3 versicolor
## 99	5.1	2.5	3.0	1.1 versicolor
## 100	5.7	2.8	4.1	1.3 versicolor
## 101	6.3	3.3	6.0	2.5 virginica
## 102	5.8	2.7	5.1	1.9 virginica
## 103	7.1	3.0	5.9	2.1 virginica
## 104	6.3	2.9	5.6	1.8 virginica
## 105	6.5	3.0	5.8	2.2 virginica
## 106	7.6	3.0	6.6	2.1 virginica
## 107	4.9	2.5	4.5	1.7 virginica
## 108	7.3	2.9	6.3	1.8 virginica
## 109	6.7	2.5	5.8	1.8 virginica
## 110	7.2	3.6	6.1	2.5 virginica
## 111	6.5	3.2	5.1	2.0 virginica
## 111	6.4	2.7	5.3	•
## 112	6.8	3.0	5.5	O
## 113 ## 114	5.7			•
	5.7	2.5	5.0	2.0 virginica
## 115		2.8	5.1	2.4 virginica
## 116	6.4	3.2	5.3	2.3 virginica
## 117	6.5	3.0	5.5	1.8 virginica
## 118	7.7	3.8	6.7	2.2 virginica
## 119	7.7	2.6	6.9	2.3 virginica
## 120	6.0	2.2	5.0	1.5 virginica
## 121	6.9	3.2	5.7	2.3 virginica
## 122	5.6	2.8	4.9	2.0 virginica
## 123	7.7	2.8	6.7	2.0 virginica
## 124	6.3	2.7	4.9	1.8 virginica
## 125	6.7	3.3	5.7	2.1 virginica
## 126	7.2	3.2	6.0	1.8 virginica
## 127	6.2	2.8	4.8	1.8 virginica
## 128	6.1	3.0	4.9	1.8 virginica
## 129	6.4	2.8	5.6	2.1 virginica
## 130	7.2	3.0	5.8	1.6 virginica
## 131	7.4	2.8	6.1	1.9 virginica
## 132	7.9	3.8	6.4	2.0 virginica
## 133	6.4	2.8	5.6	2.2 virginica
## 134	6.3	2.8	5.1	1.5 virginica
## 135	6.1	2.6	5.6	1.4 virginica
## 136	7.7	3.0	6.1	2.3 virginica
## 137	6.3	3.4	5.6	2.4 virginica
## 138	6.4	3.1	5.5	1.8 virginica
## 139	6.0	3.0	4.8	1.8 virginica
## 140	6.9	3.1	5.4	2.1 virginica
## 141	6.7	3.1	5.6	2.4 virginica
## 142	6.9	3.1	5.1	2.3 virginica
## 143	5.8	2.7	5.1	1.9 virginica
## 144	6.8	3.2	5.9	2.3 virginica
## 145	6.7	3.3	5.7	2.5 virginica
				3

```
2.3 virginica
1.9 virginica
## 146
                6.7
                            3.0
                                          5.2
## 147
                6.3
                            2.5
                                          5.0
                                                      2.0 virginica
## 148
                6.5
                            3.0
                                          5.2
                                                      2.3 virginica
## 149
                6.2
                            3.4
                                          5.4
                                                      1.8 virginica
## 150
                5.9
                            3.0
                                          5.1
```

avirginica <- data.frame(iris)
 avirginica</pre>

##		Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
##	1	5.1	3.5	1.4	0.2	setosa
##	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
##	7	4.6	3.4	1.4	0.3	setosa
##	8	5.0	3.4	1.5	0.2	setosa
##	9	4.4	2.9	1.4	0.2	setosa
##	10	4.9	3.1	1.5	0.1	setosa
##	11	5.4	3.7	1.5	0.2	setosa
##	12	4.8	3.4	1.6	0.2	setosa
##	13	4.8	3.0	1.4	0.1	setosa
##	14	4.3	3.0	1.1	0.1	setosa
##	15	5.8	4.0	1.2	0.2	setosa
##	16	5.7	4.4	1.5	0.4	setosa
##	17	5.4	3.9	1.3	0.4	setosa
##	18	5.1	3.5	1.4	0.3	setosa
##	19	5.7	3.8	1.7	0.3	setosa
##	20	5.1	3.8	1.5	0.3	setosa
##	21	5.4	3.4	1.7	0.2	setosa
##	22	5.1	3.7	1.5	0.4	setosa
##	23	4.6	3.6	1.0	0.2	setosa
##	24	5.1	3.3	1.7	0.5	setosa
##	25	4.8	3.4	1.9	0.2	setosa
##	26	5.0	3.0	1.6	0.2	setosa
##	27	5.0	3.4	1.6	0.4	setosa
##	28	5.2	3.5	1.5	0.2	setosa
##	29	5.2	3.4	1.4	0.2	setosa
##	30	4.7	3.2	1.6	0.2	setosa
##	31	4.8	3.1	1.6	0.2	setosa
##	32	5.4	3.4	1.5	0.4	setosa
##	33	5.2	4.1	1.5	0.1	setosa
##	34	5.5	4.2	1.4	0.2	setosa
##	35	4.9	3.1	1.5	0.2	setosa
##		5.0	3.2	1.2	0.2	setosa
##		5.5	3.5	1.3	0.2	setosa
	38	4.9	3.6	1.4	0.1	setosa
	39	4.4	3.0	1.3	0.2	setosa
##		5.1	3.4	1.5	0.2	setosa
##		5.0	3.5	1.3	0.3	setosa
	42	4.5	2.3	1.3	0.3	setosa
	43	4.4	3.2	1.3	0.2	setosa
	44	5.0	3.5	1.6	0.6	setosa
##	45	5.1	3.8	1.9	0.4	setosa

	4.0	4 0	0 0	4 4		
##		4.8	3.0	1.4	0.3	setosa
	47	5.1	3.8	1.6	0.2	setosa
	48	4.6	3.2	1.4	0.2	setosa
	49	5.3	3.7	1.5	0.2	setosa
##	50	5.0	3.3	1.4	0.2	setosa
##	51	7.0	3.2	4.7	1.4	versicolor
##	52	6.4	3.2	4.5	1.5	versicolor
##	53	6.9	3.1	4.9	1.5	versicolor
##	54	5.5	2.3	4.0	1.3	versicolor
##	55	6.5	2.8	4.6	1.5	versicolor
##	56	5.7	2.8	4.5	1.3	versicolor
##	57	6.3	3.3	4.7	1.6	versicolor
##	58	4.9	2.4	3.3	1.0	versicolor
	59	6.6	2.9	4.6	1.3	versicolor
	60	5.2	2.7	3.9		versicolor
	61	5.0	2.0	3.5		versicolor
	62	5.9	3.0	4.2		versicolor
	63	6.0	2.2	4.0		versicolor
	64	6.1	2.9	4.7		versicolor
	65	5.6	2.9	3.6		versicolor
	66	6.7	3.1	4.4		versicolor
	67	5.6	3.0			versicolor
				4.5 4.1		versicolor
	68	5.8	2.7			
	69	6.2	2.2	4.5		versicolor
	70	5.6	2.5	3.9		versicolor
	71	5.9	3.2	4.8		versicolor
	72	6.1	2.8	4.0		versicolor
	73	6.3	2.5	4.9		versicolor
	74	6.1	2.8	4.7		versicolor
	75	6.4	2.9	4.3		versicolor
	76	6.6	3.0	4.4		versicolor
	77	6.8	2.8	4.8		versicolor
	78	6.7	3.0	5.0		versicolor
	79	6.0	2.9	4.5		versicolor
	80	5.7	2.6	3.5		versicolor
##	81	5.5	2.4	3.8	1.1	versicolor
##	82	5.5	2.4	3.7		versicolor
##	83	5.8	2.7	3.9	1.2	versicolor
##	84	6.0	2.7	5.1	1.6	versicolor
##	85	5.4	3.0	4.5	1.5	versicolor
##	86	6.0	3.4	4.5	1.6	versicolor
##	87	6.7	3.1	4.7	1.5	versicolor
##	88	6.3	2.3	4.4	1.3	versicolor
##	89	5.6	3.0	4.1	1.3	versicolor
##	90	5.5	2.5	4.0	1.3	versicolor
##	91	5.5	2.6	4.4	1.2	versicolor
##	92	6.1	3.0	4.6	1.4	versicolor
##	93	5.8	2.6	4.0	1.2	versicolor
##	94	5.0	2.3	3.3	1.0	versicolor
	95	5.6	2.7	4.2		versicolor
	96	5.7	3.0	4.2		versicolor
##		5.7	2.9	4.2		versicolor
##		6.2	2.9	4.3		versicolor
##		5.1	2.5	3.0		versicolor
						. 01 21 00101

```
## 100
                 5.7
                                            4.1
                                                          1.3 versicolor
                              2.8
## 101
                 6.3
                              3.3
                                            6.0
                                                          2.5 virginica
## 102
                 5.8
                              2.7
                                            5.1
                                                          1.9
                                                              virginica
## 103
                 7.1
                              3.0
                                            5.9
                                                          2.1
                                                               virginica
## 104
                 6.3
                              2.9
                                            5.6
                                                          1.8
                                                               virginica
## 105
                 6.5
                              3.0
                                            5.8
                                                         2.2
                                                              virginica
## 106
                 7.6
                              3.0
                                            6.6
                                                               virginica
                                                          2.1
## 107
                 4.9
                              2.5
                                                               virginica
                                            4.5
                                                          1.7
## 108
                 7.3
                              2.9
                                            6.3
                                                          1.8
                                                               virginica
## 109
                              2.5
                                            5.8
                 6.7
                                                          1.8
                                                               virginica
## 110
                 7.2
                              3.6
                                            6.1
                                                          2.5
                                                               virginica
                              3.2
## 111
                 6.5
                                            5.1
                                                          2.0
                                                               virginica
                 6.4
## 112
                              2.7
                                            5.3
                                                          1.9
                                                               virginica
## 113
                 6.8
                              3.0
                                            5.5
                                                               virginica
                                                          2.1
## 114
                 5.7
                              2.5
                                            5.0
                                                          2.0
                                                               virginica
## 115
                 5.8
                              2.8
                                            5.1
                                                          2.4
                                                               virginica
## 116
                 6.4
                              3.2
                                            5.3
                                                          2.3
                                                               virginica
## 117
                 6.5
                              3.0
                                            5.5
                                                          1.8
                                                               virginica
                                                          2.2
## 118
                 7.7
                              3.8
                                            6.7
                                                               virginica
## 119
                 7.7
                              2.6
                                            6.9
                                                          2.3
                                                               virginica
## 120
                 6.0
                              2.2
                                            5.0
                                                          1.5
                                                               virginica
## 121
                 6.9
                              3.2
                                            5.7
                                                          2.3
                                                               virginica
## 122
                 5.6
                              2.8
                                            4.9
                                                         2.0
                                                              virginica
## 123
                 7.7
                              2.8
                                            6.7
                                                          2.0
                                                               virginica
                              2.7
## 124
                                            4.9
                 6.3
                                                         1.8
                                                              virginica
## 125
                 6.7
                              3.3
                                            5.7
                                                          2.1
                                                               virginica
## 126
                 7.2
                              3.2
                                            6.0
                                                          1.8
                                                               virginica
## 127
                 6.2
                              2.8
                                            4.8
                                                          1.8
                                                               virginica
## 128
                 6.1
                              3.0
                                            4.9
                                                               virginica
                                                          1.8
## 129
                 6.4
                              2.8
                                            5.6
                                                          2.1
                                                               virginica
                 7.2
## 130
                              3.0
                                            5.8
                                                          1.6
                                                               virginica
## 131
                 7.4
                              2.8
                                            6.1
                                                          1.9
                                                               virginica
## 132
                 7.9
                              3.8
                                            6.4
                                                          2.0
                                                               virginica
## 133
                 6.4
                              2.8
                                            5.6
                                                          2.2
                                                               virginica
## 134
                 6.3
                              2.8
                                            5.1
                                                          1.5
                                                               virginica
## 135
                 6.1
                              2.6
                                            5.6
                                                          1.4
                                                               virginica
## 136
                 7.7
                              3.0
                                            6.1
                                                         2.3
                                                               virginica
## 137
                 6.3
                              3.4
                                            5.6
                                                         2.4
                                                               virginica
## 138
                 6.4
                              3.1
                                            5.5
                                                          1.8
                                                               virginica
                 6.0
## 139
                              3.0
                                            4.8
                                                         1.8
                                                              virginica
## 140
                 6.9
                              3.1
                                            5.4
                                                          2.1
                                                               virginica
## 141
                 6.7
                              3.1
                                            5.6
                                                          2.4
                                                               virginica
## 142
                 6.9
                                                               virginica
                              3.1
                                            5.1
                                                          2.3
## 143
                 5.8
                              2.7
                                            5.1
                                                          1.9
                                                               virginica
## 144
                 6.8
                              3.2
                                            5.9
                                                          2.3
                                                               virginica
## 145
                 6.7
                              3.3
                                                          2.5
                                            5.7
                                                               virginica
## 146
                 6.7
                              3.0
                                            5.2
                                                          2.3
                                                               virginica
## 147
                 6.3
                              2.5
                                            5.0
                                                          1.9
                                                               virginica
                                                          2.0
## 148
                 6.5
                              3.0
                                            5.2
                                                               virginica
                 6.2
## 149
                              3.4
                                            5.4
                                                          2.3
                                                               virginica
## 150
                 5.9
                                                              virginica
                              3.0
                                            5.1
                                                          1.8
```

Setosa <- subset(asetosa, Species == 'setosa')
Setosa</pre>

##		Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
##	1	5.1	3.5	1.4	0.2	setosa
##	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
##	7	4.6	3.4	1.4	0.3	setosa
##	8	5.0	3.4	1.5	0.2	setosa
##	9	4.4	2.9	1.4	0.2	setosa
##	10	4.9	3.1	1.5	0.1	setosa
##	11	5.4	3.7	1.5	0.2	setosa
##	12	4.8	3.4	1.6	0.2	setosa
##	13	4.8	3.0	1.4	0.1	setosa
##	14	4.3	3.0	1.1	0.1	setosa
##	15	5.8	4.0	1.2	0.2	setosa
##	16	5.7	4.4	1.5	0.4	setosa
##	17	5.4	3.9	1.3	0.4	setosa
##	18	5.1	3.5	1.4	0.3	setosa
##	19	5.7	3.8	1.7	0.3	setosa
##	20	5.1	3.8	1.5	0.3	setosa
##	21	5.4	3.4	1.7	0.2	setosa
##	22	5.1	3.7	1.5	0.4	setosa
##	23	4.6	3.6	1.0	0.2	setosa
##	24	5.1	3.3	1.7	0.5	setosa
##	25	4.8	3.4	1.9	0.2	setosa
##	26	5.0	3.0	1.6	0.2	setosa
##	27	5.0	3.4	1.6	0.4	setosa
##	28	5.2	3.5	1.5	0.2	setosa
##	29	5.2	3.4	1.4	0.2	setosa
##	30	4.7	3.2	1.6	0.2	setosa
## ##	31 32	4.8	3.1 3.4	1.6	0.2	setosa
##	33	5.4 5.2	4.1	1.5 1.5	0.4	setosa setosa
##	34	5.5	4.1	1.4	0.1	setosa
##	35	4.9	3.1	1.5	0.2	setosa
	36	5.0	3.2	1.2	0.2	setosa
	37	5.5	3.5	1.3	0.2	setosa
##	38	4.9	3.6	1.4	0.1	setosa
##	39	4.4	3.0	1.3	0.2	setosa
	40	5.1	3.4	1.5	0.2	setosa
##	41	5.0	3.5	1.3	0.3	setosa
	42	4.5	2.3	1.3	0.3	setosa
	43	4.4	3.2	1.3	0.2	setosa
	44	5.0	3.5	1.6	0.6	setosa
##	45	5.1	3.8	1.9	0.4	setosa
	46	4.8	3.0	1.4	0.3	setosa
	47	5.1	3.8	1.6	0.2	setosa
	48	4.6	3.2	1.4	0.2	setosa
##		5.3	3.7	1.5	0.2	setosa
##	50	5.0	3.3	1.4	0.2	setosa

Versicolor <- subset(aversicolor, Species == 'versicolor')
Versicolor</pre>

##		Sepal.Length		Petal.Length	Petal.Width	Species
## !	51	7.0	3.2	4.7	1.4	versicolor
## !	52	6.4	3.2	4.5	1.5	versicolor
## !	53	6.9	3.1	4.9	1.5	versicolor
## !	54	5.5	2.3	4.0	1.3	versicolor
## !	55	6.5	2.8	4.6	1.5	versicolor
## !	56	5.7	2.8	4.5	1.3	versicolor
## !	57	6.3	3.3	4.7	1.6	versicolor
	58	4.9	2.4	3.3	1.0	versicolor
## !	59	6.6	2.9	4.6	1.3	versicolor
## (	60	5.2	2.7	3.9	1.4	versicolor
## (	61	5.0	2.0	3.5	1.0	versicolor
## (	62	5.9	3.0	4.2	1.5	versicolor
## (	63	6.0	2.2	4.0	1.0	versicolor
## (	64	6.1	2.9	4.7	1.4	versicolor
## (	65	5.6	2.9	3.6	1.3	versicolor
## (	66	6.7	3.1	4.4	1.4	versicolor
	67	5.6	3.0	4.5	1.5	versicolor
	68	5.8	2.7	4.1		versicolor
	69	6.2	2.2	4.5		versicolor
	70	5.6	2.5	3.9		versicolor
	71	5.9	3.2	4.8		versicolor
	72	6.1	2.8	4.0		versicolor
	73	6.3	2.5	4.9		versicolor
	74	6.1	2.8	4.7		versicolor
	75	6.4	2.9	4.3		versicolor
	76	6.6	3.0	4.4		versicolor
	77	6.8	2.8	4.8		versicolor
	78	6.7	3.0	5.0		versicolor
	79	6.0	2.9	4.5		versicolor
	80	5.7	2.6	3.5		versicolor
	81	5.5	2.4 2.4	3.8 3.7		versicolor
	82	5.5				versicolor
	83 84	5.8 6.0	2.7 2.7	3.9 5.1		versicolor versicolor
	04 85	5.4	3.0	4.5		versicolor
## 3		6.0	3.4	4.5		versicolor
## 3		6.7	3.4	4.7		versicolor
	88	6.3	2.3	4.4		versicolor
	89	5.6	3.0	4.1		versicolor
	90	5.5	2.5	4.0		versicolor
	91	5.5	2.6	4.4		versicolor
## 9		6.1	3.0	4.6		versicolor
## 9		5.8	2.6	4.0		versicolor
## 9		5.0	2.3	3.3		versicolor
## 9		5.6	2.7	4.2		versicolor
## 9		5.7	3.0	4.2		versicolor
## 9		5.7	2.9	4.2		versicolor
## 9		6.2	2.9	4.3		versicolor
## 9		5.1	2.5	3.0		versicolor
##		5.7	2.8	4.1		versicolor

Virginica <- subset(avirginica, Species == 'virginica')
Virginica</pre>

##		Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
##	101	6.3	3.3	6.0		virginica
##	102	5.8	2.7	5.1	1.9	virginica
##	103	7.1	3.0	5.9	2.1	virginica
##	104	6.3	2.9	5.6	1.8	virginica
##	105	6.5	3.0	5.8		virginica
##	106	7.6	3.0	6.6	2.1	virginica
##	107	4.9	2.5	4.5	1.7	virginica
##	108	7.3	2.9	6.3	1.8	virginica
##	109	6.7	2.5	5.8	1.8	virginica
##	110	7.2	3.6	6.1	2.5	virginica
##	111	6.5	3.2	5.1	2.0	virginica
##	112	6.4	2.7	5.3	1.9	virginica
##	113	6.8	3.0	5.5	2.1	virginica
##	114	5.7	2.5	5.0	2.0	virginica
##	115	5.8	2.8	5.1	2.4	virginica
##	116	6.4	3.2	5.3	2.3	virginica
##	117	6.5	3.0	5.5	1.8	virginica
##	118	7.7	3.8	6.7	2.2	virginica
##	119	7.7	2.6	6.9	2.3	virginica
##	120	6.0	2.2	5.0		virginica
	121	6.9	3.2	5.7		virginica
	122	5.6	2.8	4.9		virginica
	123	7.7	2.8	6.7		virginica
	124	6.3	2.7	4.9		virginica
	125	6.7	3.3	5.7		virginica
	126	7.2	3.2	6.0		virginica
	127	6.2	2.8	4.8		virginica
	128	6.1	3.0	4.9		virginica
	129	6.4	2.8	5.6		virginica
	130	7.2	3.0	5.8		virginica
	131	7.4	2.8	6.1		virginica
	132 133	7.9 6.4	3.8 2.8	6.4 5.6		virginica
## ##	134	6.3	2.8	5.0		virginica
##	135	6.1	2.6	5.6		virginica virginica
	136	7.7	3.0	6.1		virginica
	137	6.3	3.4	5.6		virginica
	138	6.4	3.1	5.5		virginica
	139	6.0	3.0	4.8		virginica
	140	6.9	3.1	5.4		virginica
	141	6.7	3.1	5.6		virginica
	142	6.9	3.1	5.1		virginica
	143	5.8	2.7	5.1		virginica
	144	6.8	3.2	5.9		virginica
	145	6.7	3.3	5.7		virginica
	146	6.7	3.0	5.2		virginica
	147	6.3	2.5	5.0		virginica
	148	6.5	3.0	5.2		virginica
	149	6.2	3.4	5.4		virginica
##	150	5.9	3.0	5.1	1.8	virginica

#b. Get the mean for every characteristics of each species using colMeans(). Write the code and its res

```
Asetosa <- colMeans(Setosa[sapply(asetosa, is.numeric)])
   Asetosa
## Sepal.Length Sepal.Width Petal.Length Petal.Width
          5.006
                       3.428
                                     1.462
                                                   0.246
##
   Aversicolor <- colMeans(Versicolor[sapply(aversicolor, is.numeric)])</pre>
   Aversicolor
                 Sepal.Width Petal.Length Petal.Width
## Sepal.Length
          5.936
                        2.770
                                     4.260
                                                   1.326
   Avirginica <- colMeans(Virginica[sapply(avirginica, is.numeric)])</pre>
   Avirginica
## Sepal.Length Sepal.Width Petal.Length Petal.Width
          6.588
                        2.974
                                     5.552
 #c. Combine all species by using rbind() The table should be look like this.
  mine <- rbind (Asetosa, Aversicolor, Avirginica)</pre>
  yours <- data.frame(mine)</pre>
  yours
               Sepal.Length Sepal.Width Petal.Length Petal.Width
                      5.006
                                                 1.462
                                                             0.246
## Asetosa
                                   3.428
                      5.936
                                   2.770
                                                 4.260
                                                             1.326
## Aversicolor
                      6.588
                                   2.974
                                                5.552
                                                             2.026
## Avirginica
#d. From the data in 4-c: Create the barplot(). Write the code and its result. The bar plot should be l
   barplot(height = as.matrix(yours), main = " Iris Data",
            ylab = "Mean Scores",
            beside = T, col = rainbow(3))
```

#### **Iris Data**

