**计算机编程语言实验课（第二周）**

1. **请读入学生名单(Students\_18.csv)**

**student<read.csv("C:/Users/Administrator/Desktop/students\_18.csv")**

1. **请写一个shuffle函数将学生的顺序随机打乱**

**student\_num<-nrow(student)**

**shuffle<-function()**

**{**

**random <- sample(1:student\_num, size = student\_num)**

**random**

**student<-student[random,]**

**student**

**}**

**student**

1. **新建一列Score，存储学生的分数，默认情况下得分全部为0**

**score\_student <- data.frame(student, score=student$学号)**

**score\_student$score<-0**

1. **给自己的分数修改为100分**

**score\_student[score\_student$学号==18337201,]$score<-100**

1. **修改Score列，给每个同学随机分配一个分数**

**score\_student2 <- data.frame(student, score2=student$学号)**

**student\_num2<-nrow(score\_student2)**

**score\_student2$score2<-sample(80:100,student\_num2,replace=TRUE)**

**score\_student2**

1. **请查询order函数的作用，利用该函数找出分值最高的5名同学**

**order返回一个置换，该置换将其第一个参数重新排列为升序或降序，通过进一步的参数打破连接。**

**score\_student2[head(order(score\_student2$score2,na.last = TRUE, decreasing = FALSE),n=5L), ]**

1. **绘制成绩分布图**

**hist(score2,xlab= "score2" ,breaks = 10,**

**col = "lightblue")**

**8.找出所有成绩大于90分的同学，将其保存在一个新的文件中，文件名为“top\_students.csv”**

top\_students<-score\_student2[score\_student2$score2>90,]

write.table(top\_students,file = "c:/Users/Administrator/Desktop/top\_students.csv")