```
1
lataframe <- data.frame(name = c("zhangsan","lisi","wangwu","zhaoliu")</pre>
                    height = c(170,165,178,174),
                    weight = c(50,60,59,62),
                    age = c(13,18,45,32)
dataframe$weight <- as.factor(dataframe$weight)
                 height 🗦
                                   age
        name
                          weight *
                      170
                                        13
      1 zhangsan
                                50
      2 lisi
                      165
                                60
                                        18
      3 wangwu
                      178
                                59
                                        45
      4 zhaoliu
                      174
                                62
                                        32
2、
dataframe$weight <- as.numeric(as.character(dataframe$weight))</pre>
3、
```

```
> mean(dataframe$height[dataframe$age<20])</pre>
[1] 167.5
> mean(dataframe$weight[dataframe$age>=20])
[1] 60.5
> #= \
> ##1
> name2=c("小张","小李","小王","小叶")
> grade2=c(90,87,54,51)
> dataframe2=data.frame(name2,grade2);dataframe2
 name2 grade2
1 小张
            90
2 小李
            87
  小王
4 小叶
            51
> fail=dataframe2$name2[dataframe2$grade2<60];fail</pre>
[1] 小王 小叶
Levels: 小李 小王 小叶 小张
> name2_=c("小芬","小陆")
> test2_=c(87,76)
> normal2_=c(70,85)
> dataframe2_=data.frame(name2_,test2_,normal2_)
> dataframe2_$total=0.6*test2_+0.4*normal2_;dataframe2_$total
[1] 80.2 79.6
> ##3
/ ##3
> day1=c("mon","tue","wen");day1
[1] "mon" "tue" "wen"
> day2=c(day1,"thu","fri");day2
[1] "mon" "tue" "wen" "thu" "fri"
```

```
三、
1、
weight = c(65,70,85))
2、
  dataframe$name <- as.character(dataframe$name)
dataframe <- rbind(dataframe,c("fashi",165,45))</pre>
 dataframe <- dataframe[dataframe$name!="shushi",]</pre>
 四、
1、
   dataframe <- data.frame(name=c("A","B","C","D"),gender=c("男","女","女","タ","男"),is.plus=c("是","是","否"),score=c(58,59,85,90),stringsAsFactors=F)
dataframeSscore(dataframeSscorec60&dataframeSis.plus="是"]+10
dataframeSscore(dataframeSscorec60&dataframeSis.plus="是")+10
dataframeSscore(dataframeSscorec80&dataframeSscorec80&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec40&dataframeSscorec
2、
    dataframe <- rbind(dataframe,c("E","女","否",89))
3,
 dataframe$acti <- 0
 dataframe$acti[dataframe$gender=="男"] <- "否"
dataframe$acti[dataframe$gender=="女"] <- "是"
五、
  > #五
  > grade5=c(61,75,90,82,NA)
  > mean=mean(61,75,90,82); mean
   [1] 61
   > score=c(61,75,90,82,mean);score
   [1] 61 75 90 82 61
  > score1=rep(score,c(4,2,1,4,2));score1
[1] 61 61 61 61 75 75 90 82 82 82 82 61 61
  > ##3
  > normal=c(30,24,33,28,25)
  > score2=0.7*score+normal;score2
   [1] 72.7 76.5 96.0 85.4 67.7
六
1
 | dataframe <- data.frame(name=c("A","8","C","0"),gender=c("男","男","文","文"),yangwo=c(30,55,55,70),run=c(11,13,10,9),jump=c(2,2.5,3.5,4),stringsAsFactors=F)
```

```
2
```

```
dataframescore <- function(a,b,c,d,e)</pre>
{ score <- array(0,4);
  score[which(dataframe$gender=="男"&dataframe[,a]>=b)] <- 100;
  score[which(dataframe$gender=="男"&dataframe[,a]<b)] <- 100-c*(b-dataframe[which(dataframe$gender=="男"&dataframe[,a]<b),a]);
  score[which(dataframe$gender=="女"&dataframe[,a]>=d)] <- 100;
  score[which(dataframesgender=="女"&dataframe[,a]<d)] <- 100-e*(d-dataframe[which(dataframesgender=="女"&dataframe[,a]<d),a]);
  return(score)
dataframescore1 <- function(a,b,c,d,e)</pre>
{ score <- array(0,4);
score[which(dataframe$gender=="男"&dataframe[,a]<=b)] <- 100;
score[which(dataframesgender=="男"&dataframe[,a]>b)] <- 100-c*(dataframeswhich(dataframesgender=="男"&dataframes[,a]>b),a]-b);
score[which(dataframesgender=="女"&dataframe[,a]<=d)] <- 100;
score[which(dataframesgender=="女"&dataframe[,a]>d)] <- 100-e*(dataframeswhich(dataframesgender=="女"&dataframe[,a]>d),a]-d);
return(score)
score \leftarrow t(rbind(dataframescore(3,70,1,60,1),dataframescore(4,9,10,10,10),dataframescore(5,4.5,20,3,20)))
score1 <- cbind(dataframe,apply(score,1,mean))</pre>
3
dataframe[3,4] <- dataframe[3,4]-5</pre>
score \leftarrow t(rbind(dataframescore(3,70,1,60,1), dataframescore(4,9,10,10,10), dataframescore(5,4.5,20,3,20)))
score1 <- cbind(dataframe,apply(score,1,mean))</pre>
七
```

```
#1
  xiaoming.height = 165
xiaoming.height=xiaoming.height*(1+0.3)
  > xiaoming.height
[1] 214.5
 #2
 names=c("aa","bb","cc","dd")
weight=c(65,66,64,63)
data5=data.frame(names,weight)
                                  weight
            1
                                             65
                 aa
            2
                 bb
                                             66
            3
                                             64
                 CC
                 dd
            4
                                             63
  tmp=seq(1,4,1)
result=10*10^tmp
      result
  [1] 1e+02 1e+03 1e+04 1e+05
八、
1、
seq(1,100,1)
seq(2,100,2)
c(rep(1,3),rep(2,2),rep(3,4))
dataframe <- data.frame(name=c("xiaoli","xiaowang","xiaohong"),height=c(188,177,166),stringsAsFactors = F)
dataframe <- cbind(dataframe,score=c(66,77,88))
dataframe[dataframe$name=="xiaoli",3] <- 99</pre>
 dataframe[which(dataframe$score==min(dataframe$score)),1]
 dataframe[which(dataframe$height==max(dataframe$height)),1]
 dataframe[which(dataframe$height>170&dataframe$score>60),1]
```

九

```
weight7 = c(40,44,50,55,46,60,65,90,70,90)
data7 = data.frame(gender7,height7,weight7)
for (i in 1:length(gender7))
  if (data7[i,1]=="F")
    if (data7[i,2]>165&data7[i,3]<50)
      print(data7[i,])
}
for(i in 1:length(gender7))
  if (data7[i,1]=="M")
    if(data7[i,2]>180&data7[i,3]<80)
      print(data7[i,])
}
  gender7 height7 weight7
               168
  gender7 height7 weight7
        М
               185
stars.name = c("Jason Statham", "Vin Diesel", "Dwayne Johnson", "Will Smith")
stars.name= tolower(stars.name)
> stars.name
[1] "jason statham" "vin diesel"
                                      "dwayne johnson" "will smith"
#3(利用矩阵计算)
left.matrix = matrix(c(1,1,2,4),nrow = 2,byrow = TRUE)
right.matrix = matrix(c(30,88),nrow = 2)
chicken.rabbit = solve(left.matrix,right.matrix)
> left.matrix
     [,1] [,2]
[1,]
[2,]
> right.matrix
     [,1]
[1,]
       30
[2,]
       88
> chicken.rabbit
     [,1]
[1,]
       16
[2,]
```

gender7 = c("F","F","F","F","F","M","M","M","M","M") height7 = c(150,155,163,166,168,170,177,180,185,190)

#四 #1