大数据菁英班暑期作业

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前五位同学出的题目

一、

1.

```
name=c ("zhangsan","lisi","wangwu","zhaoliu");name
height=c(170,165,178,174);height
age=c(13,18,45,32);age
data.f=data.frame(name,height,age)
```

2.

```
mode(name)
mode(height)
mode(age)
X=factor(1:3,labels=c("A","B","C"));X
X=as.numeric(X)
```

3.

```
h.m1=mean(data.f$height[data.f$age<20]);h.m1
h.m2=mean(data.f$height[data.f$age>20]);h.m2
```

二、

1.

```
name1=c("xiaozhang","xiaoli","xiaowang", "xiaoye");name1
scores=c(90,87,54,51);scores
d.f=data.frame(name1,scores)
bad=d.f$name1[d.f$scores<60];bad
```

2.

```
t1=c(87,76)
t2=c(70,85)
total=0.6*t1+0.4*t2
total
```

3.

```
day1=c("mon","tue","wen");day1
day2=c(day1,"thu","fri");day2
```

三、

1.

```
name=c("lieren","shushi","saman")
weight =c(65,70,85)
height=c(180,180,210)
d.f3=data.frame(name,weight,height)
```

2.

```
A=c("fashi",45,165)
d.f3=rbind(d.f3,A)
```

3.
rm(d.f3[2,])

四、
1.
name2=c("A","B","C","D")
gender =c("M","F","F","M")
add=c(T,T,F,F)
score3=c(58,59,85,90)
d.f4=data.frame(name2,gender,add,score3)
d.f4$score3=d.f4$score3[d.f4$score3<60&d.f4$add=="T"]+10
d.f4$score3=d.f4$score3[d.f4$score3>80&d.f4$gender =="M"]-5
2.
B=c("E","F",F,89)
d.f4=rbind(d.f4,B)
3.
for i in (1:5)
{
 x= d.f4[i,2]=="F"
c=print(x)
  }
c[c==T]="参与"
c[c==F]="不参与"
d.f4=cbind (d.f4,c)

五、
1.
x=mean (61,75,90,82)
score =c(61,75,90,82,x)
2.
score1=rep(score,times=c(4,2,1,4,2))
3.
pingshi =c(30,24,33,28,25)
score2=score*0.7+pingshi

后四位同学出的题目
一、
1.
name=c("A","B","C","D")
gender =c("F","F","M","M")
yang =c(30,55,55,70)
run=c(11,13,10,9)
jump=c(2,2.5,3.5,4)

```
test =data.frame(name,gender,yang,run,jump)
```

2.

```
t1=c(70,95,95,100)
t2=c(90,70,90,100)
t3=c(80,90,80,90)
total=t1+t2+t3
test=cbind(test,total)
```

3.

```
test&total[test&name=="B"]=test&total[test&name=="B"]-5
```

二、

1.

```
now.height=165*1.3
```

2.

```
names=c("aa","bb","cc","dd")
weight=c(65,66,64,63)
dataframe=data.frame(names,weight)
```

3.

```
a=10
i =seq (2,5,1)
result=a^i
```

三、

1.

```
A=seq(1,100,1)
B=seq(2,100,2)
C=seq(1,3,1)
D=rep(C,times=c(3,2,4))
```

2.

```
name=c("xiaoli","xiaowang  ","xiaohong ")
height=c(188,177,166)
d.f5=data.frame(name,height)
score=c(66,77,88)
d.f6=cbind(d.f5,score)
height=as.numeric(height)
score=as.numeric(score)
d.f6$score[d.f6$name=="xiaoli"]=99
```

3.

```
X=d.f6$name[d.f6$score==min(d.f6$score)];X
Y=d.f6$name[d.f6$height==max(d.f6$height)];Y
Z=d.f6$name[d.f6&height>170&d.f6&score>60];Z
```

四、

1.

```
height=seq(160,180,2)
weight=seq(45,65,2)
gender=c("F","F","F","F","F","M","M","M","M","M")
d.f7=data.frame(height,weight,gender)
like.girl=d.f7[1,]
like.boy=d.f7[10,]
```

2.

```
no.1=c("Amy","comedy")
no.1=toupper(no.1)
no.1=tolower(no.1)
```

3.

```
rabbit=(88-30)/2
chicken=30-rabbit
```