**刘京明 第一次作业**

**#1(1)**

sequence(c(6,9));

**#(2)**

L = 2\*50 + 2\*30;

B = 15\*144 + 40;

D = 15\*24/18;

P = 24\*20/15;

P < 30;

**(#不够!)**

**#(3)**

name = c("zhangsan","lisi","wangwu");

gender = c("m","f","m");

score = c(80,90,75);

data1 = data.frame(name,gender,score);

score = as.character(score);

**#2(1)**

seq(1,99,2);seq(2,100,2);

matrix1 = matrix(seq(1,100,1),nrow = 2,ncol = 50);

**#(2)**

name = c("a","b","c","d");

gender = c("f","m","m","f");

score = c(90,91,89,92);

data2 = data.frame(name,gender,score);**#(第2题未完全解出)**

**#(3)**

datax = data.frame("x","m",100);

data2 = rbind(data2,data.frame("x","m",100));**#(第3题未完全解出)**

**#3(1)**

name = c("zhangsan","lisi","wangwu","xiaoming");

math = c(98,95,85,78);

chinese = c(90,88,85,75);

data3 = data.frame(name,math,chinese);

english = c(85,94,96,88);

data3 = cbind(data3,english);

**#(2)**

total = math + chinese + english;

data3 = cbind(data3,total);

data3a = data3[order(data3$total),];

**#(3)**

for (i in 1:4)

{

if(data3[i,2]>90)

{datamath = data3[i,1]}

}

datamath = data.frame(datamath);

for (i in 1:4)

{

if(data3[i,3]>90)

{datachinese = data3[i,1]}

}

datachinese = data.frame(datachinese);

for (i in 1:4)

{

if(data3[i,4]>90)

{dataenglish = data3[i,1]}

}

dataenglish = data.frame(dataenglish);

**#4(1)**

name = c("zhangsan","wangwu","lisi");

age = c(18,19,18);

score = c(89,90,100);

data4 = data.frame(name,age,score);

**(#从表格可看出成绩与年龄无关!)**

**#(2)**

name = c("zhangsan","wangwu","lisi");

chinese = c(98,87,90);

math = c(78,89,100);

data4 = data.frame(name,chinese,math);

m1 = (98+78)/2;m2 = (87+89)/2;m3 = (90+100)/2;

total = chinese+math;

data4 = cbind(data4,total);

**#(3)**

n = 5;

n < 5;

b = rep(1,100);

a = seq(1,99,2);

**(#是vector!)**

a = as.character(a);

**#5(1)**

name = c("xinyi","xiaolan","kenan");

h1 = c(77,83,90);

h2 = c(97,99,89);

h3 = c(96,88,91);

data5 = data.frame(name,h1,h2,h3);

m1 = mean(h1);

m2 = mean(h2);

m3 = mean(h3);

t = rbind(m1,m2,m3);

data5a= cbind(data5,t);

**(#小兰可以!)**

**#(2)**

**直接可以更正:banan = "banana"(chr)**

**#(3)**

h4 = c(89,91,92);

data5 = cbind(data5,h4);

plot(data5$h1,data5$h2,data5$h3,data5$h4)**#(第3题未完全解出)**

**#6(1)**

name = c("zhangsan","lisi","wangwu","zhaoliu");

score =c(68,55,93,81);

gender = c("m","f","m","m");

data6 = data.frame(name,score,gender);

data6[3,2] = 77;

data6a = data6[order(gender,score),] **#(第1题的c题未完全解出)**

**#(2)**

m = 1;h = 5;t = 1;

g = 2\*h/t\*t;**(#与质量无关?)**

**#(3)**

matrix2 = matrix(seq(5,10,1),nrow = 2,ncol = 3);

matrix2[1,2] = 8;

matrix2 = NULL

**#7(1)**

m = 2;h = 5;

(2 < g < 5);

g = 3&4;

**#(2)**

g = 3;g >= 3;

g = 4;g >= 3;

h >= 3;

m >= 3;

**(#小红小刚可以得到!)**

**#(3)**

meal = 100\*50\*10;

**#8(1)**

a = b + 9;

a\*b = 792;

(#可知b = 24!)

b = 24;

a = b + 9;

**#(2)**

m = 138;

f = 2\*m - 7;

total = m + f;

**#(3)**

rep(character(1),20);

**#9(1)**

"swimming scores in Olympic" = data.frame(name,rank);

name = c("sunyang","phelps","horton");

rank = c("champion","second winner","loser");

**#(2)**

country = c("china","us","austrilia");

`swimming scores in Olympic` = cbind(`swimming scores in Olympic`,country);

**#(3)**

data4 = read.csv(file = "data9.csv");

data4[4,1] = as.character(data4[4,1])**#(第3题未完全解出)**