1.

> Name=c("Ana","Brian","Cathy","Dough","John","Lucas","Marcus","Nabin","William","Zoe")

> Test1=c(56,78,87,89,95,98,59,78,87,98)

> data1=data.frame(Name,Test1)

> data1

Name Test1

1 Ana 56

2 Brian 78

3 Cathy 87

4 Dough 89

5 John 95

6 Lucas 98

7 Marcus 59

8 Nabin 78

9 William 87

10 Zoe 98

> Test2=c(86,67,78,89,87,67,94,78,81,83)

> data2=data.frame(Name,Test2)

> data2

Name Test2

1 Ana 86

2 Brian 67

3 Cathy 78

4 Dough 89

5 John 87

6 Lucas 67

7 Marcus 94

8 Nabin 78

9 William 81

10 Zoe 83

#(a)

> merge(data1,data2)

Name Test1 Test2

1 Ana 56 86

2 Brian 78 67

3 Cathy 87 78

4 Dough 89 89

5 John 95 87

6 Lucas 98 67

7 Marcus 59 94

8 Nabin 78 78

9 William 87 81

10 Zoe 98 83

#(b)

> sum(Test2>Test1)

[1] 2

2.

> utils:::menuInstallPkgs()

--- Please select a CRAN mirror for use in this session ---

trying URL 'http://ftp.ussg.iu.edu/CRAN/bin/windows/contrib/3.0/PASWR\_1.1.zip'

Content type 'application/zip' length 335820 bytes (327 Kb)

opened URL

downloaded 327 Kb

package ‘PASWR’ successfully unpacked and MD5 sums checked

The downloaded binary packages are in

C:\Documents and Settings\Administrator\Local Settings\Temp\RtmpSm6X3W\downloaded\_packages

> library(PASWR)

Loading required package: e1071

Loading required package: class

Loading required package: MASS

Loading required package: lattice

> data(Calculus)

> attach(Calculus)

> print(Calculus)

No.Calculus Yes.Calculus

1 73 82

2 39 90

3 55 85

4 72 87

5 88 86

6 64 79

7 57 85

8 58 92

9 75 89

10 44 82

11 76 92

12 68 82

13 64 85

14 55 87

15 62 92

16 61 85

17 76 95

18 40 90

> mean(Calculus$No.Calculus)

[1] 62.61111

> mean(Calculus$Yes.Calculus)

[1] 86.94444

3.

> site=”<http://www.stat.berkeley.edu/users/statlabs/data/babies.data>”

> BABIES=read.table(site,header=T,sep="")

> #We can see there are 7 variables in the study

> length(head(BABIES))

[1] 7

> head(BABIES,10)

bwt gestation parity age height weight smoke

1 120 284 0 27 62 100 0

2 113 282 0 33 64 135 0

3 128 279 0 28 64 115 1

4 123 999 0 36 69 190 0

5 108 282 0 23 67 125 1

6 136 286 0 25 62 93 0

7 138 244 0 33 62 178 0

8 132 245 0 23 65 140 0

9 120 289 0 25 62 125 0

10 143 299 0 30 66 136 1

> tail(BABIES,10)

bwt gestation parity age height weight smoke

1227 109 244 1 21 63 102 1

1228 103 278 0 30 60 87 1

1229 118 276 0 34 64 116 0

1230 127 290 0 27 65 121 0

1231 132 270 0 27 65 126 0

1232 113 275 1 27 60 100 0

1233 128 265 0 24 67 120 0

1234 130 291 0 30 65 150 1

1235 125 281 1 21 65 110 0

1236 117 297 0 38 65 129 0

>

4.

> library(PASWR)

> data(Rat)

> Rat

survival.time

1 152

2 152

3 115

4 109

5 137

6 88

7 94

8 77

9 160

10 165

11 125

12 40

13 128

14 123

15 136

16 101

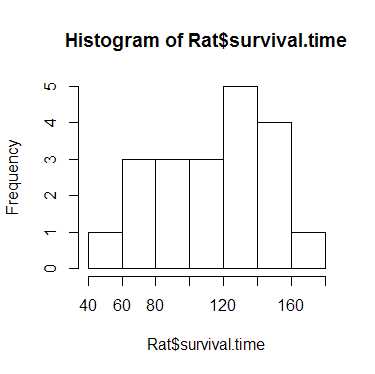
17 62

18 153

19 83

20 69

> hist(Rat$survival.time)



5.

> Country=c("United Kingdom","Czech Republic","Italy","Germany","France","Canada","U.S.")

> Amount=c(1992,1106,2212,2808,2561,2792,4887)

> Health=data.frame(Country,Amount)

> Health

Country Amount

1 United Kingdom 1992

2 Czech Republic 1106

3 Italy 2212

4 Germany 2808

5 France 2561

6 Canada 2792

7 U.S. 4887

> names(Amount)=Country

>barplot(Amount,col=c("1","2","3","4","5","6","7"),main="spending on health care",xlab="Country",ylab="Amounnts",ylim=c(0,5000))

