a <- 42

A <- a \* 2 # R is case sensitive

print(a)

cat(A, "\n") # "84" is concatenated with "\n"

if(A>a) # true, 84 > 42

{

cat(A, ">", a, "\n")

}

[1] 42

84

84 > 42

Square <- function(x) {

return(x^2)

}

print(Square(4))

print(Square(x=4)) # same thing

[1] 16

[1] 16

n <- floor(runif(1000)\*10)

t <- table(n)

barplot(t)

rnorm(10)\*10

[1] -9.4589900 -4.1824720 10.9506243 0.6433942 -0.5391122 -11.6314740

[7] 12.6633238 -13.5770312 7.1496146 -0.8268388

> rnorm(10)

[1] -1.0452181 0.3844600 -0.6992585 -0.2223792 -0.1861086 -0.5071067

[7] 2.4138570 -0.4094171 0.1258459 -2.0816094

> r=pnorm(1.96)

> print r

Error: unexpected symbol in "print r"

> print(r)

[1] 0.9750021

> qnorm(1.96)

[1] NaN

Warning message:

In qnorm(1.96) : NaNs produced

> qnorm(0.95)

[1] 1.644854

> qchisq(0.95)

Error in qchisq(0.95) : argument "df" is missing, with no default

> ?qchisq

starting httpd help server ... done

> qchisq(0.95, 5)

[1] 11.0705

> x=rnorm(30)

> x

[1] 0.4280439 -1.5398865 -0.4893987 -0.5753092 -1.8214550 1.0067316

[7] 0.5232477 -0.4696436 0.4258500 -0.5000641 1.1653301 0.7844693

[13] 1.8229253 1.3691214 -0.6449353 -0.3915181 0.5279731 -1.4368886

[19] -0.8380418 0.4318264 -0.1621905 -0.9497423 -0.6599495 0.2623238

[25] -2.8393153 0.7815091 -1.8624257 -0.4690007 -1.4617505 1.5327442

> mean(x)

[1] -0.2016473

> var(x)

[1] 1.255662

> std(x)

Error: could not find function "std"

> ?deviation

No documentation for ‘deviation’ in specified packages and libraries:

you could try ‘??deviation’

> ?var

> sd(x)

[1] 1.120563

> mad(x)

[1] 1.345899

> cMedian(x)

Error: could not find function "cMedian"

> median(x)

[1] -0.4302594

> abs(x-median(x))

[1] 0.85830325 1.10962709 0.05913926 0.14504986 1.39119563 1.43699095

[7] 0.95350709 0.03938426 0.85610942 0.06980467 1.59558946 1.21472871

[13] 2.25318470 1.79938081 0.21467592 0.03874127 0.95823247 1.00662920

[19] 0.40778244 0.86208582 0.26806888 0.51948293 0.22969015 0.69258321

[25] 2.40905590 1.21176849 1.43216631 0.03874127 1.03149113 1.96300358

> sort(x)

[1] -2.8393153 -1.8624257 -1.8214550 -1.5398865 -1.4617505 -1.4368886

[7] -0.9497423 -0.8380418 -0.6599495 -0.6449353 -0.5753092 -0.5000641

[13] -0.4893987 -0.4696436 -0.4690007 -0.3915181 -0.1621905 0.2623238

[19] 0.4258500 0.4280439 0.4318264 0.5232477 0.5279731 0.7815091

[25] 0.7844693 1.0067316 1.1653301 1.3691214 1.5327442 1.8229253

> y=abs(x-median(x))

> print(y)

[1] 0.85830325 1.10962709 0.05913926 0.14504986 1.39119563 1.43699095

[7] 0.95350709 0.03938426 0.85610942 0.06980467 1.59558946 1.21472871

[13] 2.25318470 1.79938081 0.21467592 0.03874127 0.95823247 1.00662920

[19] 0.40778244 0.86208582 0.26806888 0.51948293 0.22969015 0.69258321

[25] 2.40905590 1.21176849 1.43216631 0.03874127 1.03149113 1.96300358

> y=sort(abs(x-median(x)))

> print(y)

[1] 0.03874127 0.03874127 0.03938426 0.05913926 0.06980467 0.14504986

[7] 0.21467592 0.22969015 0.26806888 0.40778244 0.51948293 0.69258321

[13] 0.85610942 0.85830325 0.86208582 0.95350709 0.95823247 1.00662920

[19] 1.03149113 1.10962709 1.21176849 1.21472871 1.39119563 1.43216631

[25] 1.43699095 1.59558946 1.79938081 1.96300358 2.25318470 2.40905590

> median(y)

[1] 0.9077965

> x=rnorm(1000)

> y=sort(abs(x-median(x)))

> median(y)

[1] 0.6518523

> ?mad

> qnorm(0.75)

[1] 0.6744898

> hist(x)

> hist(x, col="red")

> hist(rnorm(50,1, 2);

Error: unexpected ';' in "hist(rnorm(50,1, 2);"

> hist(rnorm(50,1,2), col="red")

> hist(rcauchy(50,1,2), col="red")

> hist(rcauchy(500,1,2), col="red")

> hist(rcauchy(10000,1,2), col="red")

> z=sort(rcauchy(10000))

> print(x[1])

[1] 0.9747951

> print(z[1])

[1] -2031.729

> print(z[0])

numeric(0)

> print(z[10000])

[1] 8687.199

>