**Input, Evaluation & Data Types – Console Content**

R version 3.4.0 (2017-04-21) -- "You Stupid Darkness"

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Platform: x86\_64-w64-mingw32/x64 (64-bit)

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Type 'demo()' for some demos, 'help()' for on-line help, or

'help.start()' for an HTML browser interface to help.

Type 'q()' to quit R.

> x <- 1

> print (x)

[1] 1

> x

[1] 1

> msg <- 'hello'

> msg

[1] "hello"

> #hithere

> x <- 1:20

> x

[1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

> x <- (0.5,0.6)

Error: unexpected ',' in "x <- (0.5,"

> x <- c(0.5,0.6)

> x

[1] 0.5 0.6

> as.logical(x)

[1] TRUE TRUE

> as.character(x)

[1] "0.5" "0.6"

> as.numeric(x)

[1] 0.5 0.6

> class(x)

[1] "numeric"

> as.list(x)

[[1]]

[1] 0.5

[[2]]

[1] 0.6

>

> m = matrix(nrow=3, ncol=3)

> m

[,1] [,2] [,3]

[1,] NA NA NA

[2,] NA NA NA

[3,] NA NA NA

> dim(m)

[1] 3 3

> attributes(m)

$dim

[1] 3 3

> m = matrix(1:9, nrow=3, ncol=3)

> m

[,1] [,2] [,3]

[1,] 1 4 7

[2,] 2 5 8

[3,] 3 6 9

> m <= 1:20

Error: dims [product 9] do not match the length of object [20]

In addition: Warning message:

In m <= 1:20 :

longer object length is not a multiple of shorter object length

> n <= 1:20

Error: object 'n' not found

> n <- 1:20

> dim(n) <- c(5,5)

Error in dim(n) <- c(5, 5) :

dims [product 25] do not match the length of object [20]

> dim(n) <- c(4,5)

> n

[,1] [,2] [,3] [,4] [,5]

[1,] 1 5 9 13 17

[2,] 2 6 10 14 18

[3,] 3 7 11 15 19

[4,] 4 8 12 16 20

> y <- 1:5

> z <- 15:20

> cbind(x,y)

x y

[1,] 0.5 1

[2,] 0.6 2

[3,] 0.5 3

[4,] 0.6 4

[5,] 0.5 5

Warning message:

In cbind(x, y) :

number of rows of result is not a multiple of vector length (arg 1)

> cbind(z,y)

z y

[1,] 15 1

[2,] 16 2

[3,] 17 3

[4,] 18 4

[5,] 19 5

[6,] 20 1

Warning message:

In cbind(z, y) :

number of rows of result is not a multiple of vector length (arg 2)

> cbind(y,z)

y z

[1,] 1 15

[2,] 2 16

[3,] 3 17

[4,] 4 18

[5,] 5 19

[6,] 1 20

Warning message:

In cbind(y, z) :

number of rows of result is not a multiple of vector length (arg 1)

> rbind(y,z)

[,1] [,2] [,3] [,4] [,5] [,6]

y 1 2 3 4 5 1

z 15 16 17 18 19 20

Warning message:

In rbind(y, z) :

number of columns of result is not a multiple of vector length (arg 1)

> z <- 16:20

> cbind(y,z)

y z

[1,] 1 16

[2,] 2 17

[3,] 3 18

[4,] 4 19

[5,] 5 20

> rbind(y,z)

[,1] [,2] [,3] [,4] [,5]

y 1 2 3 4 5

z 16 17 18 19 20

>

>

>

>

>

> x <- factor(c('yes','yes','no','yes','no'))

> x

[1] yes yes no yes no

Levels: no yes

> table(x)

x

no yes

2 3

> unclass(x)

[1] 2 2 1 2 1

attr(,"levels")

[1] "no" "yes"

> attributes(x)

$levels

[1] "no" "yes"

$class

[1] "factor"

> a <- c(1,2,3,NaN,4,NA)

> is.na(a)

[1] FALSE FALSE FALSE TRUE FALSE TRUE

> is.nan(a)

[1] FALSE FALSE FALSE TRUE FALSE FALSE

> b <- data.frame(sub = 1:4, log=c(T,F,T,F))

> B

Error: object 'B' not found

> b

sub log

1 1 TRUE

2 2 FALSE

3 3 TRUE

4 4 FALSE

> names(x)

NULL

> names(a)

NULL

> names(b)

[1] "sub" "log"

> n

[,1] [,2] [,3] [,4] [,5]

[1,] 1 5 9 13 17

[2,] 2 6 10 14 18

[3,] 3 7 11 15 19

[4,] 4 8 12 16 20

> dimnames(n) <- list(c(r1,r2,r3,r4),c(c1,c2,c3,c4,c5))

Error: object 'r1' not found

> dimnames(n) <- list(c('r1','r2','r3','r4'),c('c1','c2','c3','c4','c5'))

> n

c1 c2 c3 c4 c5

r1 1 5 9 13 17

r2 2 6 10 14 18

r3 3 7 11 15 19

r4 4 8 12 16 20

**Reading Tabular Data & Interfacing**

|  |
| --- |
| > getwd()  [1] "C:/Users/212339863/Box Sync/- My Folders -/05 - GitHub/GitHub/DataScienceCoursera/Practice Stuff/One"  > d<-date.frame(a=1,b='fax')  Error in date.frame(a = 1, b = "fax") :  could not find function "date.frame"  > d<-data.frame(a=1,b='fax')  > d  a b  1 1 fax  > dput(d)  structure(list(a = 1, b = structure(1L, .Label = "fax", class = "factor")), .Names = c("a",  "b"), row.names = c(NA, -1L), class = "data.frame")  > dput(d,file='d.R')  > newfile.txt <- dget(d.R)  Error in parse(file = file, keep.source = keep.source) :  object 'd.R' not found  > d.R  Error: object 'd.R' not found  > source(d.R)  Error in source(d.R) : object 'd.R' not found  > source('d.R')  > new.y<-dget('d.R')  > new.y  a b  1 1 fax  >  >  >  > e<-'msg'  > e  [1] "msg"  > dump(c('d','e'),file='f.R')  > f.R  Error: object 'f.R' not found  > source('f.R')  > d  a b  1 1 fax  > e  [1] "msg"  >  >  > rm(d,e)  >  >  > d  Error: object 'd' not found  > source('f.R')  > d  a b  1 1 fax  > e  [1] "msg"  >  >  > con <- url(https://google.com, 'r')  Error: unexpected '/' in "con <- url(https:/"  > con <- url('https://google.com', 'r')  > line <- readLines(con)  Warning message:  In readLines(con) : incomplete final line found on 'https://google.com'  > head(line)  [1] "<!doctype html><html itemscope=\"\" itemtype=\"http://schema.org/WebPage\" lang=\"en-IN\"><head><meta content=\"text/html; charset=UTF-8\" http-equiv=\"Content-Type\"><meta content=\"/images/branding/googleg/1x/googleg\_standard\_color\_128dp.png\" itemprop=\"image\"><title>Google</title><script>(function(){window.google={kEI:'6IoVWYzVBMnmvATi95vIBg',kEXPI:'201760,1352553,1353383,3700315,3700347,3700410,4029815,4031109,4032677,4036527,4039268,4043492,4045840,4048347,4063220,4064904,4065787,4072364,4072775,4076095,4076999,4078430,4079444,4081039,4081164,4083044,4084179,4084977,4085336,4085472,4090550,4090553,4092934,4093313,4093808,4094252,4094544,4095910,4096323,4097153,4097469,4097951,4098096,4098733,4098740,4098752,4100109,4100116,4100169,4100174,4101429,4101430,4101437,4101750,4102029,4102108,4103470,4103475,4103849,4104204,4105085,4105178,4105319,4105323,4105481,4105787,4106173,4106605,4106949,4107221,4107423,4107555,4107628,4107989,4108537,4108539,4108932,4109082,4109316,4109439... <truncated>  [2] "</style><style>body,td,a,p,.h{font-family:arial,sans-serif}body{margin:0;overflow-y:scroll}#gog{padding:3px 8px 0}td{line-height:.8em}.gac\_m td{line-height:17px}form{margin-bottom:20px}.h{color:#36c}.q{color:#00c}.ts td{padding:0}.ts{border-collapse:collapse}em{font-weight:bold;font-style:normal}.lst{height:25px;width:496px}.gsfi,.lst{font:18px arial,sans-serif}.gsfs{font:17px arial,sans-serif}.ds{display:inline-box;display:inline-block;margin:3px 0 4px;margin-left:4px}input{font-family:inherit}a.gb1,a.gb2,a.gb3,a.gb4{color:#11c !important}body{background:#fff;color:black}a{color:#11c;text-decoration:none}a:hover,a:active{text-decoration:underline}.fl a{color:#36c}a:visited{color:#551a8b}a.gb1,a.gb4{text-decoration:underline}a.gb3:hover{text-decoration:none}#ghead a.gb2:hover{color:#fff !important}.sblc{padding-top:5px}.sblc a{display:block;margin:2px 0;margin-left:13px;font-size:11px}.lsbb{background:#eee;border:solid 1px;border-color:#ccc #999 #999 #ccc;height:30px}.lsbb{display... <truncated>  [3] "if (!iesg){document.f&&document.f.q.focus();document.gbqf&&document.gbqf.q.focus();}"  [4] "}"  [5] "})();</script><div id=\"mngb\"> <div id=gbar><nobr><b class=gb1>Search</b> <a class=gb1 href=\"https://www.google.co.in/imghp?hl=en&tab=wi\">Images</a> <a class=gb1 href=\"https://maps.google.co.in/maps?hl=en&tab=wl\">Maps</a> <a class=gb1 href=\"https://play.google.com/?hl=en&tab=w8\">Play</a> <a class=gb1 href=\"https://www.youtube.com/?gl=IN&tab=w1\">YouTube</a> <a class=gb1 href=\"https://news.google.co.in/nwshp?hl=en&tab=wn\">News</a> <a class=gb1 href=\"https://mail.google.com/mail/?tab=wm\">Gmail</a> <a class=gb1 href=\"https://drive.google.com/?tab=wo\">Drive</a> <a class=gb1 style=\"text-decoration:none\" href=\"https://www.google.co.in/intl/en/options/\"><u>More</u> &raquo;</a></nobr></div><div id=guser width=100%><nobr><span id=gbn class=gbi></span><span id=gbf class=gbf></span><span id=gbe></span><a href=\"http://www.google.co.in/history/optout?hl=en\" class=gb4>Web History</a> | <a href=\"/preferences?hl=en\" class=gb4>Settings</a> | <a target=\_top id=gb\_70 href=\"ht... <truncated>  [6] "</script></div></body></html>" |
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