

Basics_in_R.R

015004

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```
#####
# Load packages #
#####

#install.packages("JM")
#install.packages("memisc")
library(JM)

## Warning: package 'JM' was built under R version 3.5.2
## Loading required package: MASS
## Loading required package: nlme
## Loading required package: splines
## Loading required package: survival
## Warning: package 'survival' was built under R version 3.5.2
library(memisc)

## Warning: package 'memisc' was built under R version 3.5.2
## Loading required package: lattice
## Warning: package 'lattice' was built under R version 3.5.2
##
## Attaching package: 'memisc'
## The following objects are masked from 'package:stats':
##
##     contr.sum, contr.treatment, contrasts
## The following object is masked from 'package:base':
##
##     as.array
#####
# Using R Commands #
#####

### expressions/assignments
mean(pbc2.id$age)

## [1] 50.02038
meanAge <- mean(pbc2.id$age)
meanAge

## [1] 50.02038
percDrug <- percent(pbc2.id$drug)
percDrug
```

```

## placebo D-penicil N
## 49.35897 50.64103 312.00000

### more examples
# u needs to be defined otherwise it will not print anything
10

## [1] 10
u <- 10
u

## [1] 10
# p needs to be defined otherwise it will not print anything
1

## [1] 1
p = 1
p

## [1] 1
# o == 3

### case sensitive
pbc2.id$Age

## NULL
pbc2.id$Drug

## NULL
### missing data
is.na(pbc2.id$Age)

## [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [12] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [23] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [34] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [45] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [56] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [67] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [78] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [89] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [100] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [111] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [122] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [133] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [144] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [155] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [166] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [177] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [188] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [199] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [210] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [221] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [232] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE

```

