In_Practice_Examples.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
```

```
require(JM)
require(memisc)
########################k
# In Practice Examples #
########################

## present data
head(pbc2.id)
```

```
##   id      years        status       drug      age    sex year ascites
## 1  1  1.095170          dead D-penicil 58.76684 female    0     Yes
## 2  2 14.152338         alive D-penicil 56.44782 female    0      No
## 3  3  2.770781          dead D-penicil 70.07447   male    0      No
## 4  4  5.270507          dead D-penicil 54.74209 female    0      No
## 5  5  4.120578 transplanted   placebo 38.10645 female    0      No
```

```
## 6   6  6.853028         dead    placebo 66.26054 female    0      No
##   hepatomegaly spiders                       edema serBilir serChol albumin
## 1          Yes    Yes edema despite diuretics    14.5     261    2.60
## 2          Yes    Yes                No edema     1.1     302    4.14
## 3           No     No    edema no diuretics       1.4     176    3.48
## 4          Yes    Yes    edema no diuretics       1.8     244    2.54
## 5          Yes    Yes                No edema     3.4     279    3.53
## 6          Yes     No                No edema     0.8     248    3.98
##   alkaline  SGOT platelets prothrombin histologic status2
## 1     1718 138.0       190        12.2          4       1
## 2     7395 113.5       221        10.6          3       0
## 3      516  96.1       151        12.0          4       1
## 4     6122  60.6       183        10.3          4       1
## 5      671 113.2       136        10.9          3       0
## 6      944  93.0        NA        11.0          3       1
```

```
## What is the average age?
mean(pbc2.id$age)
```

```
## [1] 50.02038
```

```
?mean
```

```
## starting httpd help server ...
```

```
##  done
```

```
### What is the percentage of drug?
percent(pbc2.id$drug)
```

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

```
?percent
```