

```
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Version 2.1.1 (2005-06-20), ISBN 3-900051-07-0
# SW text example 1.4 p.3
> maodat = read.table(file="D:\\stat141\\MAOactiv.rd", header = T)
> maodat
```

```
  MAO.activity Diagnosis group
01          6.8          I     1
02          9.9          I     1
03          7.8          I     1
04          8.4          I     1
.....
43          2.9         III     3
44          4.5         III     3
.....
54          NA          III     3
```

```
> attach(maodat)
> stem(maodat$MAO.activity)
The decimal point is at the |
 0 | 15
 2 | 9117
 4 | 13452258
 6 | 48883447888
 8 | 457479
10 | 0167849
12 | 7
14 | 25
16 |
18 | 8
```

```
> boxplot(maodat$MAO.activity)
> summary(maodat$MAO.activity, na.rm=T)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
 1.100  5.200  7.550  7.731  9.975  18.800  12.000
> sd(maodat$MAO.activity, na.rm=T)
[1] 3.67712
> percvec = seq(0,1,.1)
> quantile(maodat$MAO.activity, na.rm=T, percvec)
 0%  10%  20%  30%  40%  50%  60%  70%  80%  90% 100%
1.10 3.16 4.42 5.59 6.80 7.55 8.16 9.61 10.50 11.85 18.80
```

```
> summary(maodat)
  MAO.activity  Diagnosis    group
Min.   : 1.100    I   :18    Min.   :1
1st Qu.: 5.200    II  :18    1st Qu.:1
Median : 7.550    III:18    Median :2
Mean   : 7.731                    Mean   :2
3rd Qu.: 9.975                    3rd Qu.:3
Max.   :18.800                    Max.   :3
NA's   :12.000
```

```
> tapply(maodat$MAO.activity, maodat$group, summary, na.rm=T)
$"1"
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
 4.100  7.500  9.200  9.806 11.600  18.800
$"2"
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
 1.500  4.150  6.150  6.281  7.975  11.400  2.000
$"3"
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
 1.100  4.100  6.100  5.963  7.450  10.800  10.000
```

```
> tapply(maodat$MAO.activity, maodat$group, boxplot, na.rm=T)
> boxplot(maodat$MAO.activity ~ maodat$group, na.rm=T)
```



