

R version 4.3.1 (2023-06-16 ucrt) -- "Beagle Scouts"  
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 Platform: x86\_64-w64-mingw32/x64 (64-bit)

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Natural language support but running in an English locale

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 Type 'q()' to quit R.

[Previously saved workspace restored]

```
> rm(list = ls())
> if(!"EnvStats" %in% installed.packages()){install.packages("EnvStats")}
> library(EnvStats)
```

Attaching package: 'EnvStats'

The following objects are masked from 'package:stats':

predict, predict.lm

```
> x0 <- c(327,327,256,247,245,189,189,184,589,588,581,579,579,578,575,274,271,271,270,261,262,261,
,261,261,230,227,202,709,700,700,697,691,288,263,262,263,253,252,239,239,232,209,188,188,186,183,
161,156,155,141,126,84.5,68.2,58.1,56.9,54.4,52.3,46.8,711,710,710,709,709,709,709,708,707,707,69
9,699,698,698,697,697,697,697,697,697,697,697,696,696,696,696,695,695,638,625,490,504,413,405
,417,391,293,287,263,261,263,263,262,262,262,262,262,261,253,253,253,253,252,252,240,239,217,206,
217,209,206,189,202,189,188,188,186,184,167,168,167,165,157,149,145,140,144,143,127,39.3,141,130,
130,127,126,123,107,108,110,95.4,90.8,79.5,85.3,79.5,82,81.6,78.6,77,75.3,708,708,697,696,695,694
,502,287,286,263,263,263,262,262,262,262,262,219,184,183,180,179,164,157,125,75.3,67.3,57
.7,670,669,658,658,276,276,266,261,229,242,232,232,220,220,201,191,191,185,185,141,99,97,86.2,77.
8,68.6,53.1,43.9,39.3,708,696,695,688,296,263,263,253,231,230,189,186,184,164,141,128,125,94.1,82
.4,68.2,57.7,57.7,54.4,51,46.8,666,291,264,258,240,189,187,679,679,677,669,669,668,667,667,666,47
6,284,265,264,258,255,253,235,206,183,143,120,75.3,68.2,54.8,51.9,45.6,709,703,703,697,690,650,29
7,284,263,263,260,253,233,230,208,189,186,163,160,156,141,124,83.2,79,67.7,58.1)
> x1 <- c(56.9,54.4,52.3,46.8,710,704,704,698,691,298,284,263,263,261,253,234,230,208,189,188,188
,186,184,163,161,156,141,124,83.2,79.5,67.7,56.9,58.1,54.4,52.3,46.8,708,708,707,698,696,696,695,
502,288,263,263,262,253,209,191,188,188,181,141,125,75.3,67.7,57.3,54.4,51.9,46.8,669,659,658,658
,658,658,658,275,275,266,266,262,256,256,234,234,234,231,190,183,166,164,164,142,51.4,677,677,667
,667,666,666,475,284,265,265,266,266,259,256,236,226,208,189,182,158,142,122,74.9,68.2,53.9,53.1,
51.9,45.6,707,707,706,697,695,695,695,502,283,264,262,262,252,210,185,184,183,176,153,141,128,75.
3,67.7,57.7,55.6,54.4,51.4,46.8,383,383,310,304,297,248,243,234,635,635,635,635,635,598,598,343,3
45,343,345,343,343,327,327,295,49.8,295,291,245,41.8,675,675,675,623,623,345,345,345,327,327,306,
299,297,268,264,249,253,249,249,243,240,234,200,203,177,128,99.5,41,36.4,675,675,675,675,675,675,
675,675,675,675,675,675,674,672,624,624,624,624,624,624,623,623,623,622,511,456,446,405,356,3
45,345,345,345,344,344,344,344,344,344,344,313,331,332,331,319,319,327,317,321,309,306,294,29
9,298,252,265,264,251,251,252,252,252,251,251,229,220,227,225,222,212,222,221,203,195,189,176,178
,163,153,138,120,120,116,113,110,102,100,100,99,95.8,88.7,89.1,88.3,87,86.2,79.9,86.6)
> x2 <- c(80.3,675,675,675,675,675,655,456,346,346,340,330,330,330,330,330,325,287,266,267,25
3,251,251,233,220,203,185,97.5,89.1,41.4,654,654,604,604,349,343,343,331,327,327,327,272,289,289,
261,261,254,177,80.7,215,191,158,138,102,63.6,63.6,59,49.8,675,675,623,623,345,346,345,306,298,28
1,265,266,253,201,202,179,128,99.1,97.9,48.9,43.1,41,36.4,669,348,330,327,299,266,249,665,665,665
,665,665,665,665,614,503,452,345,344,333,332,325,306,296,266,252,249,220,179,85.3,46,41.4,675,675
,675,623,623,616,345,344,345,332,332,331,332,325,306,263,248,252,249,220,200,203,177,99,41,36.4,6
75,675,675,623,623,345,344,345,332,332,331,332,325,306,297,264,264,249,252,249,249,221,200,203,17
7,99,41,674,674,674,674,674,622,512,456,346,345,332,332,327,307,297,266,253,249,249,220,177,88.7,
41.4,36.4,662,610,610,610,610,609,608,344,343,343,333,333,327,327,305,291,291,261,261,259,258,258
,251,200,115,59,663,663,615,615,615,499,451,345,343,331,332,319,322,322,305,294,294,268,251,247,2
46,220,178,85.3,41.4,124,124,116,111,109,93.3,77.4,75.7,284,284,284,284,284,248,248,135,135,129,1
29,124,112,112,111,109,107,94.5,87.4,52.3,41.4,315,315,315,263,263,139,134,123,123,122,113,112,11
2,110,110,106,104,103,102,91.2,89.1,85.7,82,68.6,68.6,68.2,36,335,315)
```

```
> x3 <- c(315,315,315,315,315,315,315,315,315,315,315,315,315,314,288,265,264,264,264,264,264,263,263,263,263,263,159,160,160,160,160,135,135,132,133,133,133,133,133,133,133,133,133,133,133,133,123,116,116,112,115,110,110,110,107,104,104,100,99,99,99,92,95.4,92,94.5,91.6,90.8,89.1,88.7,75.7,75.7,75.7,74.9,74,69,69,68.6,68.6,68.6,59.8,59,58.5,58.5,51,50.6,49.8,47.7,48.5,46,315,315,315,315,315,315,294,162,136,136,130,121,120,110,104,104,99,99,99,99,99,99,99,91.6,88.3,72.8,68.6,68.6,300,300,250,250,220,160,133,133,126,125,108,101,101,99,91.6,91.6,91.2,75.3,76.1,75.7,71.9,60.6,58.5,315,315,263,263,160,135,133,133,123,113,110,110,107,104,103,89.1,87.8,312,115,107,99,92,88.3,71.1,311,311,311,311,311,311,311,311,287,261,138,135,134,134,120,108,103,100,99,99,87.4,69.8,47.7,314,315,315,315,263,263,139,133,123,113,112,112,110,103,100,99,99,99,99,89.1,88.3,68.6,68.6,315,315,315,263,263,160,133,123,113,112,112,110,104,103,100,99,99,99,99,91.6,89.1,88.3,68.6,68.6,68.2,315,315,315,315,315,315,288,263,140,136,135,135,106,104,100,99,99,91.6,91.2,89.1,68.6,306,256,256,256,255,254,159,134,133,133,133,125,125,117,108,102,99,99,91.6,84.9,74,74,74,58.5,38.9,309,309,309,263,263,262,181,138,135,134,134,120,119,108,102,100,99,99)
> x4 <- c(92,91.2,86.2,67.7,67.7,315,315,315,315,315,315,288,263,139,133,113,112,104,104,100,99,99,91.6,91.6,89.1,68.6,68.2,52.3,49.3,49.3,41.4,34.7,177,177,177,177,177,155,152,47.2,47.2,46.8,46.8,46.8,43.1,43.1,41,40.1,192,192,192,163,163,46.4,43.1,43.1,40.6,40.6,40.1,40.1,40.1,33.4,33.4,199,195,193,192,192,192,192,192,192,192,192,192,192,192,192,192,192,192,192,192,192,161,164,164,164,164,164,164,164,163,163,163,163,163,49.3,48.9,46.4,46.4,46.4,46.4,46.4,46.4,46.4,46.4,46.4,46.4,46.4,46.4,46.4,46.4,46.4,46.4,46.4,46.4,46.4,44.3,43.1,41.4,40.1,40.6,40.1,39.3,36,36,192,192,192,192,192,192,163,163,48.5,48.5,48.5,45.2,43.1,43.1,43.1,36,36,36,36,36,36,36,36,183,183,178,178,150,99,46.4,46.4,43.1,43.1,39.3,36,192,192,163,163,46.4,46.4,46.4,46.4,42.6,41,40.6,33.4,33.4,161,43.1,43.1,33.4,197,190,190,190,190,190,190,190,162,46.4,46.4,46.4,42.6,39.7,37.2,36,36,36,192,192,192,192,192,163,163,46.4,42.6,40.6,40.6,40.1,40.1,40.1,40.1,40.1,40.1,36,33.4,193,192,192,192,192,192,163,163,47.7,47.7,47.7,43.1,41.4,36,36,36,33.4,33.4,189,189,189,187,185,185,46.4,46.4,46.4,46.4,46.4,43.5,43.5,36,36,195,195,195,190,190,162,61.5,46.4,46.4,46.4,46.4,42.6,42.6,37.2,36,36,35.5,193,192,192,192,192,192,192,163,163,46.4,43.1,40.6,40.1,40.1,33.4)
> x <- c(x0,x1,x2,x3,x4)
> skewness(x, na.rm = FALSE, method = "fisher", l.moment.method = "unbiased",
+ plot.pos.cons = c(a = 0.35, b = 0))
[1] 1.2301
>
>
>
> kurtosis(x, na.rm = FALSE, method = "fisher", l.moment.method = "unbiased",
+ plot.pos.cons = c(a = 0.35, b = 0), excess = TRUE)
[1] 0.5839018
>
> shapiro.test(x)

      Shapiro-Wilk normality test

data:  x
W = 0.83446, p-value < 2.2e-16

> hist(x,main="Main",xlab="value",border="light blue",col="blue",las=1)
> qqPlot(x)
>
>
```