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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Type 'q()' to quit R.

```
> 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(0,0,0,0,0,0,0,0,100,0,75,0,0,0,0,0,0,0,0,0,0,0,40,0,0,11.111,0,0,0,11.111,0,0,0,0,0,0,8
.333,0,13.333,0,0,6.25,37.5,0,0,3.846,3.704,0,5.128,4.082,5.769,9.836,1.316,6.604,5.983,0.813,6.4
52,18.4,0,0,1.587,6.349,0,6.299,0,0,0,0,0,0,1.575,0,0,0,0,0,0,0,0,0,0,0.787,0,0,0,0.787,11.024,
0,0,0,0,0,0,0,0,0,0,0.787,0,0,0,0,0,0,0,0,0.787,0,0,0,0,0,100,0,0,6.299,16.535,0,1.562,0,
0.781,0,0,2.362,0,0,0,0,0,10.156,0,0,0,0,0,12.121,12.121,0,0,1.515,0,0,0.775,0,0,0,0,0,0,0,1.515,
0,0.758,0,0,0,0,0,0,6.061,0,0,18.182,2.273,4.511,0,0.758,0,2.273,1.562,0,6.061,2.29,1.562,0,0,0.7
58,1.695,3.817,0,3.759,3.008,2.256,6.015,3.571,2.586,5.042,1.681,1.333,4.054,2.667,0,5.882,0,6.34
9,1.538,0.758,0,1.449,2.158,2.857,7.801,0,0,0,9.396,10.067,0,0,8.725,0.671,2.685,0,0.667,20.667,4
.667,17.857,0,0,2,0,0,0.667,2,0,0,1.333,0.667,11.333,1.333,15.333,0,0,0,0,0.671,0,0,0,0,0,0,0,0,0
,0,0.667,0,2,0,0,4.667,0.667,0,0,0,0,0,0,0,0.671,0.671,0,0,0,0,0.667,0,0,0,0,0.667,1.333,0,0,
3.333,0,0,0,0,0.667,8.667,0,0,6.04,0,0,0,4,0,15.333,0,2.703)
> x1 <- c(5.405,0,3.356,2.013,0,37.584,0,0,1.342,0,0,0,0.671,97.987,0,0,0,0,0,0,0,4,0,0.667,0,0
.667,0,0,0,0.667,0.667,4,0,0.667,4.667,1.333,0,0.667,2.027,2.013,0,0,0.667,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,12.667,8,31.333,5.333,4.667,1.333,0,4.667,6,0,0,4.667,9.333,0,2,0,0,0,0,1
.333,0,0,0,18.667,0,0,0,14.667,0,1.333,0,0.667,36,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,55.333,0,0.67
6,1.351,0.676,0.676,0,1.351,0,0,0,0,6.849,0,7.586,0,8.904,5.479,2.778,0.943,1.587,2.344,2.041,0.6
85,3.425,0,0,0,0.685,0,0,0,0,1.379,0,0,0,1.379,0,0,0.69,0,0,28.276,0.69,0,13.194,1.389,0,0,42.361
,0,0.694,0.694,2.098,0.694,0,0,0,0,0,0,0.699,0,0,4.196,0,0,0,7.586,0,0,0,0.69,0,0,0,0,4.895,5.5
94,0,0.699,3.497,0,0,8.392,4.196,0,1.408,0.704,0.704,6.338,0,0,0,2.098,0,0,0,1.429,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0.725,0.725,0,18.978,2.941,5.839,4.38,0,0,0,1.46,1.471,1.481,5.926,0,0.735,3.676,
0.735,0,10.37,0.741,0,0,0.741,0,0,0.741,0,0,0,0,0,11.94,0,0,0,0,0,2.344,4.724,0,0,7.317,6.723,5
.882,0,0,0,2.679,37.963,0,0,12.871,9.677,0,0,10.714,0,7.463,0,2.326,0,7.143,4.545)
> x2 <- c(5.556,0,30.769,7.692,0,0,0,62.5,0,0,37.5,0,37.5,0,0,0,0,14.286,0,0,0,0,0,0,0,50,0,0,0
,0,0,0,0,0,0,25,0,0,0,0,0,0,0,0,0,0,0,0,0,0,11.111,36.364,18.182,0,0,50,0,0,0,0,0,0,0,9.091,0,13.
043,11.111,13.793,0,4.444,5.769,2.74,1.163,6.122,4.587,0,3.509,18.421,0,0,0,13.158,0,5.263,0,0,0,
0,0,0,0,4.31,0,0,0,0,0,0,0,0,0,0,0,0,0.847,11.017,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,2.479,0,0,0,0,0,99.187,0,0.813,2.439,21.951,0,1.626,0.813,2.439,0,0,0,0,0,0,0,0,16.129,0,0,0,0
,0,8.594,12.5,0,0,0.781,0,0,0,0,0,0,0,0.775,0,0,0.775,0,1.55,0,0,0,0,0,3.101,0,0,20.93,0.775,3.
846,2.308,0.769,0,10,2.344,0,1.6,1.562,0,0.775,0.769,0,1.653,3.937,0,2.29,0.763,0,7.317,6.78,1.77
,2.727,1,0,0,0.84,5.932,0,1.852,1.639,1.538,2.439,1.6,5.882,1.449,9.42,0,0,0,11.565,10.884,0.68,0
.685,6.757,2.069,4.828,0,0.676,22.297,6.757,34.615,7.692,0.676,0.676,0.671,0,2,4,0.671,0,2,0,10.0
67,0,16,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1.333,0,0,4,3.333,0,0,1.333,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0.671)
> x3 <- c(0,0,2.013,1.342,0.667,0,0,0.667,6,0,0,4.667,0,0,0,8.667,0,14,0,2.685,1.342,0,4.698,2.66
7,0,28.859,0,0,1.342,0,0,0,0.671,98.658,0,0,0,0,0,0,0,0,0,2.667,0,0,0,0,0,0,0,0,0,0,0.667,0,2.667,2
.667,0.667,0,2,2.667,0.667,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,8.054,7.383,34.8
99,5.369,4.027,1.342,0,2.703,6.04,0,0.671,7.333,6.667,0,1.333,0.671,0,0,0,0.671,0,0,0,12.667,0,0,
0,12.667,0,2,0,0,28.667,0,0,0,0,0,0,0,0,0,0,0,0,0,52,0,0.671,2.685,0.671,0,1.342,0,0,0,
0.676,5.405,0,11.644,0,2.041,8.163,2.721,2.308,1.538,0.68,2.041,0.68,1.361,0,0.68,0,0,0,0,0,0,2.0
27,0.68,0,0,0,0,0,0,0,0,0,34.247,0,0,10.884,0,0,0.68,42.177,0,0,0,2.055,0,0,0,0,0.685,0,0.685,0,0,4
.11,0,0.685,0,11.644,0,0,0,0,1.37,0,0,0,0,0,6.944,4.861,0,1.389,6.944,0,0,8.392,4.196,0,0.694,0,3
```

```
.472,4.861,0.694,1.389,0.699,0,0,2.098,0,0,0,2.817,0,0,0,0,0,0,0,1.418,0,0,0,0,0,2.206,0,0,17.647
,0.735,5.882,0,0.741,3.731,0,0,2.29,3.077,4.545,0,0.752,3.03,0,0,9.091,0,0,0,0,0,0,0,0,0,0,0,0,9.
16,0,0,0,0,0,0,0,7.143,0,0,6.838,1.709)
> x4 <- c(4.31,0.87,0,0,3.704,33.945,0,0,11.458,3.261,1.124,0,10.39,0,5.797,1.961,2.326,3.571,14.
286,0,6.667,0,18.182,0,0,0,0,50,25,0,33.333,0,0,0,0,0,0,0,0,0,0,0,0,0,0,66.667,0,33.333,0,0,0,0,0
,0,0,0,0,0,40,20,0,0,0,0,0,25,0,0,0,0,0,25,0,0,0,0,0,0,0,33.333,0,0,0,0,0,0,10,0,0,12.5,0,0,0,11.765,
0,0,0,0,0,0,0,0,7.692,0,5.556,0,0,0,6.061,10,4.545,4.082,1.887,15.254,2.778,8.602,8.411,0,1.77,25
.664,0,0,0.885,14.159,0,4.425,0,0,0,0,0,0,0,0.877,0,0,0,0,0,0,0,0,0,0.87,0,0,0,0.862,9.402,0.84
7,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0.82,0,0,3.279,0,0,0,0,0,99.18,0,0.82,7.377,24.59,0,0.82,
0,1.639,0,0,3.39,3.279,0,0,0,0,0,12.903,0,0,0,0,0,11.29,16.935,0,0,0.806,0,0,0,0,0,0,0,0,0.806,0,
4.839,0,0.806,0,0,0,0,0,4,0,0,19.685,0,7.752,0.775,0,0,5.6,0,0,0.775,4.651,0.8,0.787,0.794,1.68
1,0.787,4.615,0,3.101,0.775,0.775,3.876,4,4.902,5.882,3.279,1.064,1.562,3.704,2.222,3.676,3.497,2
.055,10.204,0,0,0,6.711,13.333,0,0,3.333,0.671,3.356,0,0,24,4.667,20,9.091,0,1.333,0,0,2.055,6,1.
333,0.667,2.667,0,9.333,0,16.667,0,0,0,0,0,0,0,0)
> x5 <- c(0,0,0.667,0,0,0,0,0,0.667,0,0,2.667,1.333,0,0,0.667,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,2,0,0,3.333,2,0,0,0,2.667,8,0,0,4,0.671,0,0,8.725,0,12.081,0,2.685,4.698,0,4.667,2,0,37.333,0,0,
1.342,0,0,0,0,99.329,0,0,0,0,0,0,0,0,6.667,0,0.671,0.671,0,0,0,0,0,0,1.342,5.369,0,0.676,2.721,1.
361,0,1.361,2.721,1.342,0,0,0,0,0,0,0,0,0,0,0,0,0.667,0,0,0,0,0,0,0,0,0,0,12,6,33.333,3.3
33,1.333,0.667,0,2,8,0,0,4,4.667,0,0,0.671,0,0.671,0,4.027,0,0,0,10.738,0,0,0.671,6.757,0,0,0.6
76,0,37.162,0,0,0,0,0,0,0,0,0,0,0,0,0,0,49.664,0,0,3.333,2,2,0,2,0,0,0,0,5.369,0,5.405,0,0.
68,6.522,4.054,0,5.263,3.759,2.703,0.676,2.027,0,0,0,0.671,0,0,0,0,0,0,2.027,0,0,1.351,0,0,
21.918,0.68,0,10.204,0,0,0,48.98,0,0,0.68,0.68,0,0,0.68,0,0,0,1.361,0,0,2.721,0,0,0,10.959,0,0,0,
0,0.69,0,0,0,0,0.69,2.778,7.639,0.699,0,4.196,0,0,8.451,3.521,0,0.694,2.083,2.083,4.861,0.694,0,0
,0,0,2.098,0,0,0,0.704,0.704,0,0,0,0,0,0,1.389,0,0,0,0,1.408,0.709,0,20.567,0.709,8.451,1.408,0
)
> x6 <- c(4.255,0,0.709,2.837,1.418,2.128,0,0,2.128,0,0,6.338,0,0,0,0.699,0,0,0.699,0,0,0,0,0,6.5
22,0,0,0,0,1.538,7.692,0,0,9.091,1.653,1.639,0.82,0,0,1.739,38.261,2.752,0,6.731,10.101,2.083
,0,2.273,0,6.154,0,0,0,0,0,0,20,0,0,0,0,0,0,0,0,0,14.286,0,0,0,0,9.091,5,22.727,12.903,0,2,22.6
42,11.111,0,0,23.729,1.695,1.695,5.085,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
3.03,1.515,1.515,3.03,1.515,1.562,3.125,3.175,0,3.175,3.704,25,3.636,0,18.333,0,1.923,2.222,2.273
,6.122,8.163,2.326,2.381,2.381,0,1.754,0,0,13.636,3.077,0,0,0,1.695,1.562,0,3.125,0,0,0,0,0,8.929
,5.263,0,12.5,5.556,7.273,5.556,1.887,0,4.255,6,0,3.774,0,5.263,6.897,0,5,0,7.937,20,0,0,2.703,2.
899,2.857,1.408,8.537,1.205,5.682,0,1.124,3.371,5.618,30.337,1.124,3.371,6.383,1.98,0,0,9.917,0.8
06,0,0,11.724,0,0,0,0,0,0,0,0,0,0,0,99.32,0,0,0,0,0,0,0,0,0,0,0,0.68,0,0,0,0,8.784,0,0,0.676,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,8,0.667,0,0,0,0,0,0.667,0,0,98,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
6.04,3.356,0,8.108,0,0.676,2.721,2.703,0,1.342,2,0,0.667,0,0,0.667,2)
> x7 <- c(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,22.667,0,0,0,1.333,2,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,65.333,0,0,0.667,0,53.02,0,2.721,0,0.87,12.5,8.108,8.725,4.054,17.568,4.027,1.342,0,0.671,0.676
,0.671,4.698,0,0,4.73,0,0.671,1.342,0,0,0,0,0,0.671,0,0,0,0,0,0,0,0,0.667,0,0,0.667,0,0,0
,0,0.667,24.667,0.667,0,4.667,0,4,10,0,62,19.333,0,0,0,0,0,0,0,0,0,0,0.68,0,0,0,0,0.68,0,
0,2.055,5.479,0,0.68,14.483,0,0,0,0.676,0,0,0,1.361,0,0.676,0,0.676,0,1.351,0,0,2.027,0,4.0
54,0,0,0,16.438,0,0,0,0.685,0.69,0,0,0,0,0.685,0,0.68,0,0,0,0,0.685,0,0,2.055,0,0,2.0
55,1.37,0,0,0,0.685,0,0,0,0,0,8.966,11.724,0,0,0,0,0,0,0,0,0,0,6.993,0,0,12.587,0.6
99,0,0,0,1.399,5.594,0,0,0,0,0,0,0.699,0,0,0,0,0,0,0,1.471,0.84,0.909,0.926,16.038,2.
83,0,4.854,3.093,1.075,0,0,1.408,37.143,7.576,4.918,0,0,26.316,10.526,1.852,1.852,0,1.923,28,44.4
44,2.326,2.564,7.143,34.211,2.564,0,2.381,4.762,0,0,0,0,0,0,0,0,0,0,0,0,17.857,0,0,0)
> x8 <- c(7.692,11.765,0,0,22.222,9.231,0,1.471,25,4.348,1.449,2.899,0,1.449,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,1.408,0,0,0,0,0,0,0,0,0,0,2.597,0,1.333,1.333,5.333,0,6.757,1.37,1.37,6.849,4.167,12.
5,9.722,0,11.321,2.564,0,0,9.804,12.857,0,5.634,8.451,0,3.774,0,22.581,1.613,0,1.562,1.562,0,0,2.
74,1.37,1.37,0,1.282,3.896,2.564,5.128,3.846,1.316,1.351,2.941,7.692,0,15.094,3.704,1.852,3.846,2
.985,1.562,1.538,15.873,10.938,1.562,1.471,2.597,3.896,3.529,3.529,5.814,2.326,5.682,5.495,2.105,
3.125,5.263,22.68,1.942,3.704,6.306,3.448,0,2.542,8.148,4.286,0.694,2.74,14.286,0,0,0,0,0,0,0,0.6
8,0,0,0,97.959,0,0,0,0,0,0,0,0,0,0,0,0,0,8.966,0,0,0,0,0.68,0,0,0,0,0,0,0,0,0,0,6
.04,0,0,0,0.671,0,0,0,0.671,0,95.302,0,0.671,0,0,0,0,0,0,0.676,0,0,0,0,0,6.757,1.351,0,3.
378,0,0,2.027,0.676,0,0,0.671,4.698,0,0.671,0.671,0,0,0,0.667,0,0,0,0,0.671,0,0,0,0,0
,24,0,0,0,0,3.333,0,0,0,0,0,0,0,0,0,0,0,0,64.138,0,0,0,0,55.245,0,1.429,0.935,2.817,19.71
8,7.639,8.333,2.013,22.819,6.711,0.671,0,0,0,2.685,0,0,1.342,0,0,0,0,0,0.671,0.671,0,0,0,0,0,
0,0,0,0)
> x9 <- c(0,0,0,0.671,0.671,0,0.671,0,0,0,0,0.671,20.134,0.671,0,3.333,0,2.013,7.383,0,63.758,16,
0,0,0,0,0,0,0,0,0,0,1.342,0,2.685,2.685,0,0,11.486,0,0,0.671,0,0.676,0,0,0,0,0,
0,2.041,0,0.68,0,0.68,0,0,0,0,1.361,0,2.74,0,0,2.055,15.753,0,0,0,0,0.704,0,0,0,0,0,0.694,0.69,0,
0.685,0,0,0,0,0,0.694,0,1.389,0,0,0.694,0,0,1.389,1.408,0,0.694,0,0,0,0,0,0,0,5.556,9.028,0
,0,0,0,0,0.694,0,0,0,0,0,9.929,0,0,11.348,0,0,0,2.128,11.348,0,0,0.709,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,1.471,1.471,1.01,0,1.02,6.316,0,0,2.174,5.435,2.381,1.266,0,0,2.778,32.857,4.412,
1.587,1.613,0,16.393,0,5.085,1.754,1.786,0,70.213,10.638,4.545,2.703,31.707,2.439,0,5,2.703,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,37.5,0,0,0,0,0,0,0,18.182,7.692,0,0,0,0,0,0,0,0,32.075,5.357,0,0,22.22
2,31.25,1.515,1.515,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1.429,0,0,0,5.714,0,11.594,
1.449,1.449,5.714,4.286,2.817,5.634,10.448,1.515,9.375,0,1.961,9.804,0,0,0,12.5,0,5.882,5.128,2.2
73,2.222,3.509,0,4.348,0,0,0,10.714,0)
> x10 <- c(5.085,0,1.449,0,1.818,0,0,4.286,0,1.408,6.944,3.297,5.319,1.064,3.093,2.041,3.125,23.2
```

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32,3.03,0.98,3.846,2.804,0.87,1.527,6.207,9.589,1.333,1.333,10.667,0,0,0,0,0,0,0,0,0,0,0,99.329,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,12.162,0,0,0,0,0.671,0,0,0,0,0,0,0,0,0,0,0,0,0,0,4,0.667,0,0,0,0
,0,0,0,0,0,0,0,100,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,2.667,0,0,6,0.667,0.667,2.667,0,0,1.333,2,0.667,
0.667,0,0,0,0.667,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,27.333,0,0,0,0.667,0.667,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,62,0,0,0,0,54.667,0,1.342,0.847,3.636,7.895,7.692,5.556,1.333,14.667,2.667,6.711,1.
342,24.161,3.356,0,0,0,0,0,2.667,0,0.676,2.703,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1.333,
0,1.333,0,0,0,0,1.333,21.333,0,0,4.667,0,2,6,0,58,18,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1.342,
0,0,2.013,4.698,0,0,11.486,0,84.211,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,2.041,0,0,1.361,12.
925,0,0,0,0,0,0,0,0,0,0)
> x11 <- c(0,0.671,0,0,0,0,0,0,0,0,1.342,0,0,1.342,0,0,0,0.671,0,0,0,0,0,0,0,0,0,0,0,0,0,2.013,0,0,
0,0,0,0,0,0,0,8.966,0,0,12.414,0,0,0,0,1.379,13.793,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0.69,0.699,0,0,16.418,0,3.448,3.448,0,7.273,1.961,0,0,1.961,0,0,0,16.327,0,0,0,15.217,0,8.88
9,0,37.778,0,0,0,4.762,34.884,7.143,36.842,11.111,0,0,0,4.545,0,0,6.667,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,20,20,0,0,0,0,0,0,0,0,0,0,13.636,0,7.143,0,0,9.756,0,6.383,0,0,0,3.125,3.077,1
.408,9.589,5.747,0,0.826,0.781,15.909,87.681,0,0,0,0,0,0,0,0,0,0,0.685,0,0,0,0,0,0,0,0,21.088,0
,0,0,0,0,17.568,0,0,4,4,0,0.667,0,0,23.333,0,5.333,0,0,0.667,0,0,0,0,2,0,0,3.333,0,0,0,0,0,0,0,0,
0,12,0,0,0,32,0,0,0,0,0,0,0,0,0,0,0,0,0,0.671,0,0,0,0,0,0,0,13.333,0,2.74,0,0,1.333,0.667
,0,0,0,0,0,0,0.667,0,0,0.667,0,0,0,0,0,0,0.667,0,0,0,0,0,0,0.667,0,0,0,1.333,0.667)
> x12 <- c(0,0,1.333,0,0,0,0,0,0.667,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,54.667,0,0,0,0,4.667,0.6
67,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,3.333,6.667,3.333,1.333,0.699,4.762,2.667,3.333,3.33
3,0.667,0.667,0,6.667,0,0,0.667,1.333,0,0.667,0,0,0,0,0,0,0,0,1.333,0,0,0,0,0,0,0,16.107,0,0,
0,4.698,0.671,0,0,0,2.685,28.667,0,3.333,0,0.671,0,0.671,11.333,0,0,0,0,0,0,0,0,0,0,0,0,0,0.6
67,0,0,0,0,0,0,0,2.667,0,0,1.342,1.342,0.676,0,0.676,0,0,0,0,0,0.667,0,0,0,0,0.667,0,0,0,
0,0.667,0,0,0.667,2.667,0,5.405,1.351,35.135,0.676,0,0,0.68,0,0,0,1.361,0,0,0,0,0.676,0,0,0,16.
216,0.676,0,0,0,0,14.865,0,0,4.73,0.676,0,0.676,4.054,10.135,0,0,1.351,0.676,0,0,2.703,0,2.027,
0,0,0,0,0,0,0,3.378,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,23.973,5.479,0,1.37,0,6.849,0.685,0,0,0.6
85,0,47.552,0,0,0.704,0.709,0,0,1.493,0,0,0,0.8,0,0.806,0.806,0,0,0.901,4.673,2,4.255,17.391,11.6
28,14.634,5.195,4.615,11.538,3.922,38.462,2.128,1.923,3.774,12.281,1.852,0,10.909,0,12.5,5.556,1.
961,2.128,0,2.703,0,0,0)
> x <- c(x0,x1,x2,x3,x4,x5,x6,x7,x8,x9,x10,x11,x12)
> shapiro.test(x)

        Shapiro-Wilk normality test

data:  x
W = 0.30966, p-value < 2.2e-16

> rm(list = ls())
> if(!"EnvStats" %in% installed.packages()){install.packages("EnvStats")}
> library(EnvStats)
> x0 <- c(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,33.333,0,0,0,0,0,0,0,0,11.111,0,11.111,0,0,20,0,0,0
,8.333,0,6.667,6.25,6.25,6.25,0,14.286,0,11.538,7.407,6.061,7.692,0,1.923,8.197,7.895,4.717,3.419
,0.813,0,28,0,11.905,3.968,0,8.73,0,0,1.587,0,4.724,2.362,0,0,1.575,0.787,0.781,0,0,0,1.55,0,0,0,
0,0,0,8.661,1.575,0,2.362,0,0,0,1.575,0,0,0,0,11.024,3.937,5.512,0.787,0.787,13.386,4.724,0,1
.575,0,0,0,0,0,0,18.11,3.15,0,0,0,0,32.283,3.15,3.15,0.787,0,2.344,29.688,1.575,0,1.575,2.362,0,0
,0,0,3.125,0,2.273,0,0,5.303,9.091,5.303,0.758,2.273,9.848,7.576,0.758,3.101,3.788,22.727,1.515,0
,2.273,8.333,0,0,7.576,0.758,21.97,3.03,0,0,0,0,3.03,0,0,32.576,6.818,11.278,0,0.758,0,20.455,27.
344,0,2.273,0.763,15.625,0,0.746,59.091,1.695,6.87,0.752,13.534,5.263,10.526,11.278,1.786,6.034,5
.882,4.202,12,8.108,8,16.364,13.235,11.392,11.111,35.385,6.061,14.706,15.942,7.914,9.286,31.915,2
1.233,0.676,8.108,4.027,0,0,0,5.369,0.671,0.671,2.685,0,0,0.667,7.143,0,18,6,2,0,0.667,1.333,10,0
,17.333,0,0,0.667,1.333,0,9.396,0.671,7.383,0.671,0,1.342,5.369,0,6.711,2.013,2.013,0.671,0.671,2
.013,3.333,0,0,0,0.667,0,14.667,34,0,0,0.667,2,0,0,84.564,0,58.389,0,0,0.671,0,0,10,1.333,0,0
,0.667,2,0,87.333,0,0.667,0,0,3.333,6.667,0,0,1.342,0,0,28,0.667,1.333,0.676,6.757)
> x1 <- c(2.027,0,7.383,4.027,4.054,4.027,0.671,0,1.342,0,0,0.671,55.705,0,2.685,1.342,0,2,2,1.33
3,2.667,2,4,0,9.333,0.667,19.333,26,0.667,0,0,0,2,0,8,2.667,0,2.667,0,1.351,0,14.765,2.685,2.01
3,12.752,20.134,16.107,7.383,0,12,2,96,0,0,0.667,0,0,2,9.333,2.667,0,4.667,10,0,0,0,0,0.667,0.667,2
.667,5.333,14,0,14,6,0,3.333,3.333,0,2,12.667,0.667,0,5.333,0.667,0,2.667,0,0.667,6,0,0.667,1.333
,1.333,0.667,26,12,0,3.333,0,1.333,10.667,0,0,1.333,1.333,0,0.667,0,4.027,2.685,0,0,34.899,0,0,0,0.
671,0,16.779,6.667,2.703,3.378,12.838,5.405,1.351,25,1.351,10.135,82.432,2.721,0.685,9.589,0,2.06
9,0,5.479,6.164,2.083,2.83,0.794,0,5.442,8.904,1.37,3.425,27.397,3.425,2.74,5.479,3.425,11.644,5.
479,4.138,0,0.69,0.69,0.69,2.759,4.138,6.897,10.959,76.027,0.69,0,1.389,0,0.694,0,20.139,0,0.69
4,0,9.091,0,4.196,6.294,9.091,7.692,12.587,0,0.699,4.895,0,3.497,4.861,5.556,2.069,6.897,3.448,2.
759,0.69,3.448,0,0,0,0,0,0.699,0.699,0,1.399,0,0.699,1.399,2.797,0,11.972,0,3.521,3.521,8.451,2
.817,1.408,0,0,2.098,2.113,3.521,0,4.286,0.704,2.128,51.064,0,3.546,5.674,2.837,5.674,4.286,14.18
4,2.128,3.546,1.439,9.42,0,7.971,14.599,0.735,22.628,0,0,35.766,0,0,5.882,0.741,11.111,0,0,8.824,
0,0.735,4.444,2.222,0,0,3.704,2.222,6.667,5.926,1.471,5.147,1.481,0.741,0.746,0.752,0,3.817,4.5
8,1.538,0.775,0,8.661,0,3.226,11.382,30.252,1.681,0,38.462,0.901,3.571,2.778,0.943,0,1.98,6.452,3
.488,17.857,39.286,0,10.448,3.636,0,6.061,0,13.636)
> x2 <- c(0,14.286,7.692,7.692,8.333,0,12.5,0,0,12.5,0,0,12.5,12.5,0,0,3.571,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,25,25,0,0,0,0,0,0,0,0,0,0,0,0,9.091,0,0,9.091,0,0,66.667,0,20,66.667,0,18
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.182,15.385,4.348,3.704,3.448,10.526,11.111,5.769,1.37,9.302,6.122,3.67,0,0.877,28.07,0,14.035,2.
632,0,2.632,0.877,0,2.609,0,7.692,2.564,0.862,0,1.724,0,0,0,0,0,0.862,0,0,0,0,0,0.855,9.322,0.847
,0,1.695,0,0,0,0,0.82,0,0,0,2.479,0,10,1.667,7.5,1.653,0,9.917,3.306,0,0.826,0,1.653,0,0,0,0,18.0
33,3.279,0,0,0,0,32.52,1.626,1.626,0,3.252,0.813,31.707,2.439,0,2.439,0,0,0,0,0,0.806,0,4.724,0.7
87,0,6.25,16.406,1.562,3.906,3.906,10.156,16.406,1.55,6.25,5.426,20.93,0,0,0.775,7.752,0,0,3.101,
0,17.829,0.775,0,0,1.55,1.55,2.326,1.55,0,33.333,8.527,11.538,0,0,0,16.154,17.969,0,0.8,0,23.2,0,
0.769,62.791,4.132,6.299,0,15.267,6.107,8.8,5.691,5.932,8.85,7.273,9,11.25,10.769,2.521,3.39,54.3
1,2.778,6.557,12.308,21.951,17.6,6.618,13.768,38.406,27.66,0.68,6.122,8.163,0,0,0,6.081,0.69,2.06
9,1.37,0.676,0.676,0,7.692,0,12.838,4.73,0.671,0,0.667,2,10.067,0.671,6,0,0.671,0,0,0,12.667,0.66
7,6,0.667,1.333,0.667,8,0,9.396,2.013,2.667,0.667,0,0.667,1.333,0,0,0,2,0.667,16,30,0,0,0,0,0,0,8
7.333,0,60,0.667,0,0,0,0.671,0,14.094,2.013,0,0,0,0.671)
> x3 <- c(2.013,0.676,83.893,0,0,0,0,3.333,4.667,0,0,2,0,0,0,26,0.667,1.333,0.671,16.107,1.342,0,
10.067,2,5.369,4.698,3.333,0,1.342,0,0,0.671,55.705,0,5.369,1.342,0,2,1.333,2,3.333,1.333,4.667,0
,8.667,0,20.667,24.667,0,1.333,0,0.667,0,3.333,0,4.667,0,2.667,0.667,0.667,1.333,0.667,14.094,2.6
85,1.342,16.107,20.805,8.054,10.738,0,14.765,1.342,96.644,0.671,0.671,0,0,0,0,0.671,8.667,3.333,0,5
.333,6,0,0,0,0,2.013,4.698,2.013,14.765,0,10.738,2.013,0,1.351,3.356,0,2.685,8,1.333,0,4,0.671,0,
2.013,0,0,9.396,0,0.667,0,2,0.667,21.333,14,0.667,1.333,0,0,8,0,0,2.667,2.667,1.333,0.667,0,1.333
,1.333,0,0,36,0,0.667,0,0,16,8,0.671,2.685,12.752,4.698,1.342,22.148,2.013,6.711,84.564,8.108,0,7
.432,0,1.37,0,0.68,5.442,4.762,3.077,1.538,1.361,0.68,4.762,1.361,2.041,27.891,1.361,3.401,7.483,
1.361,6.803,4.762,3.378,0.68,1.361,1.361,0.68,0.68,4.762,6.207,10.959,81.507,0.685,1.361,0,0,0,0,
0,17.007,0,0,0,10.274,0,4.795,5.479,8.276,10.274,12.329,1.37,0,3.425,0.685,0,5.479,1.37,0.685,10.
274,3.425,4.795,0,3.425,0,0.69,0,0,6.207,0.694,0,0,1.389,2.083,0,2.098,2.797,3.497,0,11.806,0,2.0
83,2.083,4.861,0.694,1.399,0,0.699,2.098,2.098,2.797,0,4.225,0,2.128,53.521,0,2.817,6.383,4.286,1
2.057,6.383,12.143,0.719,4.412,0.735,12.5,1.471,0.735,15.441,1.471,14.706,1.471,0.741,39.552,0.74
6,0,7.634,1.538,10.606,0,0,7.576,0,2.273,7.576,3.03,0,0,0,2.256,0.752,14.925,5.97,4.478,2.985,3.0
08,0,1.527,0.763,0,3.077,4.615,1.538,2.362,0,7.143,0,1.653,17.094,32.479)
> x4 <- c(3.448,1.739,47.748,0.909,3.704,0,0.917,2.83,0.98,4.167,5.435,1.124,14.458,28.571,1.316,13
.043,5.882,0,10.714,0,5.556,0,0,0,0,0,0,16.667,0,50,0,0,0,0,0,0,10,0,100,66.667,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,25,0,0,0,0,0,0,33.333,0,0,0,0,12.5,0,7.143,0,37.5,
18.75,0,23.529,5.882,0,12.5,0,62.5,0,10,45.455,0,7.692,7.143,16.667,30.435,19.231,10.345,12.121,2
.5,18.182,8.163,13.208,3.39,5.556,5.376,2.804,0,0,29.204,0,11.504,1.77,0,7.08,0,0,2.655,0,1.77,3.
54,0,0,7.018,2.609,0,0,0,0.87,0,0,0,0,0.87,7.759,0,0,1.709,0,0,0.84,0,0.833,0,0,0,2.5,0,5,4.1
67,4.959,0.82,0.82,13.934,5.738,0,0.82,0,0.82,0,0,0.82,0,26.23,4.098,0,0,0,0,40.984,0.82,2.459,0.
82,0,0,40.984,3.279,0,3.39,4.098,0,1.639,0,0,0,2.419,0,3.226,0,0,4.839,14.516,3.226,2.419,4.032,8
.871,12.097,0,8.333,8.065,19.355,1.613,0,3.226,12.097,0,0,6.452,0,20.968,1.613,0,0,0.806,0,2.4,3.
937,0,27.559,8.661,9.302,0,0.775,0,17.6,20.93,0,4.651,0.775,20.8,0,0,71.429,2.362,4.615,0.775,10.
078,9.302,9.302,10.853,3,8.824,4.902,11.475,8.511,21.875,7.407,17.037,15.441,11.189,8.904,39.456,
26.351,1.342,4.698,10.738,0.667,0,0,8.667,0,2.685,0.671,0,0,0.667,11.429,0,14.667,3.333,0,0,2.055
,0.667,6.667,1.333,10.667,0,0,0.667,0.667,0,11.333,0.667,5.333,0.667,2.667,0,4.667,0)
> x5 <- c(7.333,2.667,2,0.667,0,2,2,0,0,0,0,0.667,16,36.667,0,0,0,0,0,0,87.248,0.671,63.758,0,0,0
,0,1.351,0,12.162,4.054,0,0,0,0.667,2,0,75.333,0,0.667,0,0,5.333,6.667,0,0,6.667,0,0,0,26.174,0,2
.013,0,14.094,0.671,0,10.667,2,8,3.333,1.333,0.671,0.671,0,0,0.671,45.638,0,2.685,0,0,2.013,0.671
,1.333,3.333,1.333,6,0,6.711,0,24.161,26.846,0,0,0,0,0.671,2.685,0,6.757,1.361,0,2.041,0.68,0.68,
0,15.436,0.671,3.356,16.107,18.792,11.409,10.067,0,14.765,0.671,93.289,0,0,0.667,0,0,1.333,8,4,0,
7.333,5.333,0,0,0,0,1.333,1.333,9.333,0,8,2.667,0,2.667,7.333,0,0,13.333,4,0,0,6.711,0.671,0,0,
0,1.342,9.396,0,0.671,1.342,0.671,2.685,23.49,18.243,0.676,3.378,0,0,10.811,0,0,2,1.333,0.667,0,0
,0.667,1.333,0,0.671,34.228,0,0,0,20.805,6.711,0,2.013,15.333,4,1.333,21.333,0,12,83.893,4.698,
0,11.409,0,0.676,0,2.041,5.072,2.703,0.826,0,3.008,1.351,1.351,8.784,0.676,4.054,29.054,0.676,1.3
51,6.711,0.671,4.73,8.784,3.378,0,0.676,2.027,0,1.351,2.703,7.432,12.838,87.075,0.685,0,0,0,0,0.6
8,0,14.966,0,0,0,7.483,0,6.122,9.524,8.219,10.204,10.884,0,2.041,5.442,3.401,2.041,0,4.11,1.37,11
.034,2.069,4.828,0,2.759,0,1.379,0.69,0,4.828,2.778,0,0,0.699,2.098,0,0.704,2.113,2.113,0.699,9.7
22,0,2.083,2.083,5.556,1.399,0.699,0,0,1.399,2.098,7.692,0,4.225,0.704,3.497,52.083,0,4.828,5.556
,2.083,9.028,4.861,13.194,2.083,4.895,2.098,11.972,1.418,4.255,13.475,2.837,23.944,2.113,2.128)
> x6 <- c(31.915,0.709,0,4.965,1.418,19.149,0,0.709,10.638,0,2.817,7.042,2.098,0.699,0,0,4.895,1.
399,9.091,4.93,7.857,2.878,2.878,0.719,0,0.725,0,3.65,3.704,0,3.846,0,5.385,0.769,2.362,15.702,28
.099,4.098,0,45.378,0.855,2.609,0.87,0.917,0.926,1.923,5.051,2.083,8.696,32.955,0,9.231,11.628,13
.793,26.087,0,0,0,20,0,0,0,0,8.333,9.091,0,42.857,0,0,18.182,0,0,0,0,0,3.704,3.571,0,
1.695,0,0,3.39,0,0,0,0,0,3.39,0,0,0,0,0,0,0,0,90.476,17.188,1.538,0,0,0,1.429,0,40,0,0,1.51
5,25.758,28.788,0,0,1.515,1.562,12.5,20.635,28.125,7.937,11.111,7.143,30.909,5.357,11.667,18.644,
7.692,24.444,31.818,2.041,10.204,4.651,7.143,26.19,2,5.263,24.561,9.091,7.576,9.231,1.538,4.545,2
.985,0,0,1.562,3.125,50,58.73,0,22.581,17.544,1.786,3.509,12.5,6.25,22.222,12.727,16.667,11.321,4
.255,0,8,0,11.321,55.172,3.509,6.897,21.429,23.333,36.508,11.111,7.692,5.333,18.919,27.027,23.188
,18.571,14.085,17.073,12.048,9.091,4.494,3.371,7.865,3.371,3.371,2.247,8.989,1.064,11.881,1.887,8
.85,0,0,11.719,8.759,0.69,6.849,0,0,0,0,0.685,0.68,0,0,10.884,0,0,0.68,0,18.367,0.68,0,0.68,6.122
,0,13.605,0,65.306,2.041,1.361,1.361,0,0,6.081,2.027,0,0,0.676,13.514,0,5.405,12.081,3.356,0,0.66
7,0,0.667,82.667,4.667,3.333,0,0,0,0.667,4.667,30.667,0,20.667,13.333,0,0,0.667,0,0,4.667,0,0,0,2
,0,0,0,0,8,3.333,27.333,0.671,0,0.676,0,0.676,0,0,4.027,1.342,0,52.703,0,0,3.401,0.676,0,2.685,2,
0,0,0,2.667,0,0.667)
> x7 <- c(2,0.667,0,0,0.671,0,0,0,2,0,0,2,0,0,0.667,4,0,0.667,0,2,0,0,20,5.333,0,0,0,1.333,0,0.
667,2,0,4,0,0.667,2.013,0,1.342,0.667,0.667,0,4.667,8,2.667,1.342,1.361,6.803,2.679,4.348,7.353,2
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.027,8.725,4.73,10.811,0.671,2.013,61.074,4.698,0,6.04,34.228,0,0,8.784,0,0.671,0,1.351,0,0.671,4
.027,0.671,0,1.342,0,28.188,5.369,4.027,11.333,4,4.667,0,0,2,0,0,4.667,60.667,0.667,4.667,4.667,0
,0,1.333,4.667,68,0,8,8,4,1.333,0,1.333,2,0,10.067,9.524,0.68,0,0.68,1.361,0.676,0.676,0.676,0,0,
0.676,2.041,64.626,0,2.041,26.531,0,1.361,0,0.68,0.685,2.74,0,0,0,0,0,2.055,2.027,0.676,2.703,0,0
.68,1.361,2.041,0.68,1.351,5.405,2.027,3.378,0.676,4.73,0,0.676,1.351,2.027,31.757,16.438,1.37,5.
479,0,0,0,0,0,3.448,0.69,3.448,0,0.685,0.685,0,1.37,0,2.041,0.68,0,28.276,1.37,0,0,0.685,20.548,0
,0,3.425,0,0,0,8.904,1.37,0,25.352,1.37,0,0,0,8.219,0,0,0.685,0,2.069,0.69,7.586,0.69,0,0,0,0,0,0
,0,0,0,0.69,18.75,0,0,11.888,0,0.699,1.399,17.483,0,0.699,0,13.986,4.196,0,0.699,11.888,4.196,3.4
97,0,1.399,9.155,2.797,0,0,0,2.098,0,2.797,2.098,2.098,1.399,0,2.878,0,1.681,0.909,15.741,1.887,0
.943,0.952,0.971,4.124,3.226,0,1.205,2.817,4.286,1.515,3.279,6.78,1.754,3.509,45.614,14.815,14.81
5,3.704,40.385,38,4.444,6.977,15.385,14.286,0,5.128,0,2.381,2.381,11.905,0,4.762,0,0,2.703,0,12.9
03,11.111,0,0,0,0,0,0,0,0,6.061,0)
> x8 <- c(0,5.882,0,0,0,3.077,0,0,1.471,0,0,1.449,0,1.449,0,0,1.471,1.471,2.941,0,2.941,0,0,0,0,0
,1.429,0,90.141,11.268,2.778,0,0,0,0,28.205,0,1.299,0,15.584,18.667,0,2.667,0,12.162,8.108,12
.329,20.548,5.479,13.889,5.556,22.222,12.069,5.66,10.256,20,11.321,25.49,5.714,20,12.676,8.451,2.
778,15.094,8.621,12.903,19.355,1.562,3.125,1.562,0,4.688,1.37,2.74,35.616,54.054,1.282,15.584,29.
487,7.692,2.564,10.526,27.027,16.176,13.462,21.429,7.547,3.704,27.778,7.692,25.373,26.562,36.923,
12.698,9.375,3.125,16.176,25.974,14.286,16.471,9.412,15.116,13.953,2.273,3.297,4.211,6.25,4.211,3
.093,1.942,11.111,1.802,3.448,1.709,1.695,0,0,7.639,6.164,0.68,6.803,0,0.68,0,0,0.68,0.68,0,0,13.
605,0.68,0,0.68,0,23.81,0.68,0,0,4.082,0,12.925,0,63.265,1.361,1.37,0.69,0,0,6.897,2.069,1.379,0,
0.69,8.163,0,5.479,14.384,0.685,0.685,1.37,0.685,1.37,84.459,3.356,6.04,0,0,0.671,0,0,5.369,22.819,
0,16.779,14.765,0.671,0,1.342,0.671,0,6.04,0,0,0,0,0,0.671,0,0,12.081,2.703,31.081,0.671,0,0,0,0,
0,0.676,1.351,2.703,0,57.432,0.676,0,2.027,1.351,0,2.013,2.013,0,0,0,2.667,0,0,1.333,0.671,0.671,
0,0,0,0.671,0,0.671,1.342,0,0,2,0,0,0,2.667,2,0,1.333,0,1.333,0,0,16.667,3.333,0,0,0,4.667,0,1.333,
3.333,0,4,0,0,0.671,0,0.671,2.013,2.74,0,0,6.25,4.167,1.389,0.699,0,7.143,1.869,2.817,6.338,0,3.472
,1.342,8.725,1.342,4.698,60.403,5.405,0.667,8.054,38.255,0.667,0,7.383,0,0.671,0,0,0.671,0.676,4.
027,0.671,0.671,0.676,0,34.014,8.108,2.703,8.054,2.013,1.342,0)
> x9 <- c(0,4.054,0,0,2.685,58.389,0,3.356,7.383,0,1.342,5.369,69.128,0,8,8.667,8.725,1.342,0,0
.671,1.333,0,8.108,12.162,0,0,1.351,2.685,0,0.671,0.671,2.013,0,0,1.342,1.351,66.216,0.676,2.685,27
.027,0,2.685,0,1.342,2.013,0,0,0,0,0,0,0,4.027,2.703,1.351,0.676,0,0.68,4.082,1.361,3.401,1.361,2.7
21,1.361,3.401,0,7.483,0,0,1.361,2.055,32.877,12.329,0,6.849,0.685,0,1.379,0.694,0,2.817,2.113,4.
225,0,0,0.699,0,0,0,1.37,1.37,0,29.167,2.083,0.694,0,0,25,0,3.472,0,0.694,0,7.639,0,0.704,0,18.05
6,0,0.694,0,0,4.861,0,0,2.778,0,1.389,0,3.472,1.389,0,0,0.694,0,0,0.69,0.69,0,0,1.389,16.667,0,0,
11.348,0.709,0.709,1.418,12.766,1.418,0,0,12.057,4.965,2.128,0.709,14.184,1.418,4.255,0,3.546,4.2
86,2.857,0,1.429,0,2.143,0,0.714,1.439,1.439,2.174,0,0,0,1.01,2.041,12.245,2.105,0,1.053,0,3.261,
2.381,2.532,1.282,7.143,1.389,5.714,1.471,1.587,4.839,6.557,0,45.763,3.39,33.333,0,59.574,8.511,8
.511,6.818,18.919,0,2.439,0,0,5.405,7.895,0,2.778,0,0,0,13.043,0,0,0,0,0,14.286,0,0,0,0,0,0
,0,50,0,0,14.286,0,11.765,0,4.762,3.704,2.941,0,1.887,1.786,0,6.349,1.587,0,1.515,4.545,2.985,5.9
7,0,0,2.985,0,0,0,1.493,0,0,0,0,0,2.899,0,0,66.667,11.594,0,1.429,0,0,0,0,12.857,0,1.429,0,24.286
,11.765,0,1.449,0,8.571,10,8.451,11.268,8.955,4.545,7.812,35.556,15.686,5.882,14.286,42.857,12.5,
75,16.667,14.706,0,15.909,42.222,15.789,19.149,2.174,0,5.128,0,3.571,12.069)
> x10 <- c(3.39,4.615,24.638,48.276,9.091,13.333,12.857,28.571,22.535,16.901,16.667,17.582,7.447,
6.383,3.093,3.061,9.375,0,0,12.745,1.923,4.673,7.826,5.344,1.379,0,7.333,5.333,0,9.333,0,0.667,0,
0,0.667,0.667,0,0,14,0.671,0,1.342,0,18.121,0,0,0,4,0,16.667,0,59.333,0.667,0,0,0,5.405,0,0,0,2
.013,14.094,0,0.671,12.838,0,0,1.351,3.356,1.342,92,3.333,5.369,0,0,0,0,2.667,26.667,0,28,15.333,
0,0,1.333,0,0,6.667,0,0,0,0,0,0,0,4,2,39.333,0,0,0,0,0,0.671,0,2,3.333,0,64,0,0,2.667,0,0,6,0,0
.667,0,0,2,0,0,0,0,0,0,0,1.333,0,0,2,0,0,3.333,0.667,0,0.667,0,2.667,0,17.333,2.667,0,0
,0,2.667,0,0,0.667,0,2.667,0,0,0,0,2.667,0,0,0.667,10,3.333,0.667,0,0.671,8.054,0.847,7.273,2.632
,5.128,3.704,10.667,0.667,1.333,6.04,2.685,9.396,1.342,4.698,63.758,3.333,0.667,2.667,40,0,0.676,
8.784,0,0,0,0,0,1.333,2.667,0,0,1.333,0,34.667,10,0.667,2.667,4,0.667,0,0,1.333,0,0,0,64.667,0,4,
6.667,0,0,1.333,3.333,74.667,0,9.333,9.333,5.333,0.667,0,0,2,0,2.667,14,0,0,0,0.667,2,0,0.667,0,0
,0,1.333,60.667,0,2.667,36.242,0,5.369,0,0.671,0,0.671,1.342,0,0.676,0,1.754,3.509,0,0,0.68,6.081,1
.361,0.68,0,0,4.082,0.68,0.68,0.68,4.082,0,0.685,0,9.459,0,0,0.676,2.721,31.973,7.483,1.361,2.721
,0.68,0,1.361,0,0.68,1.361,0,3.378,0,0,0.676,0,0.671)
> x11 <- c(0,0.671,2.013,0,37.162,1.342,0,0.671,0,32.886,0,0,0,0,0,7.383,0,0,16.107,0,0,0,0,5.3
69,0,0,0,0,1.342,0,0.671,0,0,0.676,0,0,0.676,0,0,0.685,17.123,0,0,13.793,0,0,2.759,10.345,0,0
,0,16.552,3.448,0,0.69,15.172,2.069,2.069,0,0,8.276,2.069,0,1.379,0,2.069,0,0.69,0.69,1.379,0.69,
0,0.69,0.699,0,2.703,1.493,0,6.897,1.724,0,1.818,1.961,0,2.083,3.922,1.961,0,0,4.082,0,2.128,0,13
.043,0,0,0,2.222,80,0,14.286,0,0,0,5.556,0,0,0,9.091,0,0,6.667,0,11.111,0,14.286,0,0,0,0,0,0,0,
0,0,0,0,16.667,0,0,0,80,0,0,10,0,0,9.091,0,0,0,11.765,0,0,12.5,3.571,3.125,0,0,9.756,4.545,0,
5.769,13.793,20.968,3.125,27.692,2.817,8.219,2.299,0,42.975,2.344,3.788,0,5.797,0.714,71.831,0,2.
098,4.196,11.111,0.69,2.759,0.685,0,0,2.055,0,5.479,3.425,0.685,0,0.685,0,0,0.68,0,0,0,4.054,0,
0,3.333,0,0,0,0,18.667,1.333,85.333,4,4.667,0,0,0,0,0,1.333,0,0,6.667,2,0,0.667,17.333,0,0,1.33
3,0,0,2,0,0,9.333,2.667,2,0,3.333,0,0,6,0,6,14,0,1.333,2,23.49,25.503,0.671,16.107,4.027,49.664,0
,0.667,0,0,5.333,0,0,0.667,0.667,0.685,0.671,4.667,24.667,12.667,0,8.667,19.333,0.667,0,0,2,3.333
,0,4,3.333,0,0,0,0.667,1.333,0.667,1.333,2.667,97.333,0,5.333,2.667,6.667,1.333,11.333,3.333,1.
333,8.667,0,0,2.667,1.333)
> x12 <- c(0,0.667,76.667,16,1.333,0,8.667,0,0,44,0,32.667,0,0,0,0,6,1.333,0,0,18.667,0,0,0,1.333
,0,0,3.333,5.333,0,0,0,14,9.333,0.667,0,0,12.667,0.667,0,0,2,2,2.667,0.667,0,13.333,3.333,0.667,2,1
8,1.333,0.667,0.667,0,2,7.333,3.333,2,1.333,8.392,6.122,6,11.333,3.333,3.333,0,2.667,9.333,0,1.33
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3,24.667,1.333,0,2,1.333,3.333,0,15.333,4,0.667,13.333,3.333,4.667,22,20.667,2,2,8,0.667,0,0,0,0.
671,1.342,90.604,0,0,0.671,0.671,0,0.671,7.595,1.342,11.333,0,0.667,0.671,11.409,10.738,4.698,0.667
,0,0,0,0,0,0.667,0,0,0.667,0.667,16,0,8.667,0,22.667,0.667,0.667,0,0,0,0,0,19.333,0.667,2.667,2.7
03,1.342,2.013,16.779,0.676,0,2.703,0.676,16.892,4.73,9.459,0,4.73,2.685,4,48,8.667,4.667,1.333,1
.333,1.333,0.667,0,0,0,1.333,0.667,0,0,1.333,2.013,1.351,19.595,9.459,0.676,2.041,2.041,12.925,0.
68,2.721,0,0,2.041,0,2.721,0,1.361,1.351,3.378,0,1.361,26.351,0.676,2.027,0,54.054,0.676,14.189,2
.027,0,0.676,19.595,18.919,2.027,0.676,0.676,0,0,0,0.676,0,3.378,2.027,2.027,91.216,0,0,0,0,0,0,0
,1.351,25,0.676,21.622,0.676,0,4.054,0,3.401,0,0.685,0,0,45.89,0,0,0,2.74,1.37,20.548,0,2.74,0,1.
37,0,0,2.055,10.274,17.123,29.452,2.083,3.497,0,1.399,2.817,8.511,0.709,9.353,2.985,1.562,2.381,3
.2,12.8,5.6,7.258,0,0.82,7.759,5.405,0.935,2,7.447,2.174,5.814,2.439,0,1.538,0,1.961,3.846,2.128,
15.385,9.434,3.509,74.074,0,1.818,0,5.357,57.407,11.765,0,0,0,0,0,100)
> x <- c(x0,x1,x2,x3,x4,x5,x6,x7,x8,x9,x10,x11,x12)
> shapiro.test(x)

        Shapiro-Wilk normality test

data:  x
W = 0.48487, p-value < 2.2e-16

> rm(list = ls())
> if(!"EnvStats" %in% installed.packages()){install.packages("EnvStats")}
> library(EnvStats)
> x0 <- c(14.286,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,16.667,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,6.25,0,0,0,0,0,0,0,2.564,0,1.923,0,0,0.943,0,0,0,2.4,0,0,0,0,0,3.175,0,11.024,0,0,0,0,0,0,35.433
,0,0,0,0,0,0,0,0,0,0.787,0,85.039,0.787,0,81.102,0,2.362,0,0,0,0,0,0,0,0,95.276,0.787,0,1.575,1.5
75,0,0,0,0,0,0,0,17.323,34.646,0,0,0.787,0,1.575,0,48.031,0.787,0,1.575,0,0,0,0,0,3.937,0,0,0,0
,0.781,0,0,0,0,54.887,0,0,0,2.273,0,0,29.545,0.775,0.758,0,87.879,96.97,0,0,0.758,0,0,12.879,
0,0,41.667,91.667,0,9.091,3.788,0,0,0,1.515,0.752,0,0,0,2.344,0,1.515,0.763,5.469,0,0.746,0,0,2
.29,0.752,5.263,0,9.023,6.767,0.893,2.586,2.521,1.681,1.333,0,0,0,5.063,0,0,3.788,3.676,0,2.158
,1.429,0.709,0.685,0,0,0,1.342,32.215,12.081,2.685,9.396,6.04,0,0,0,0,3.571,0,2,0,0,0.667,3.333
,0.667,0,2,0,0,0,3.333,0.671,0,0,4.698,0,0,0,0,1.342,0,0,0,51.678,0,0,0.667,0,0,0,0,0,0,0,0,0,0
,84.564,0,0,0,0,2.685,0,89.933,0,0,0,0,0,0.667,0,0.667,0,0,0,0,0,1.342,5.333,0,0,0,7.383,40.2
68,71.141,0.671,15.333,0,0,0,1.351)
> x1 <- c(0,0,1.342,0,0,0,0,0,12.081,0,0,0,0,0.671,0,0,22.667,0,26,0,0,0,0.667,0,0.667,0,0,0,12,0
,0,90.667,0,20.667,0.667,2.667,0,0.667,63.333,0,1.342,0,2.685,5.369,0,0,0,0,0,0,0,0,0,4.667,0
,0,0,0,0,0,1.333,0,26.667,0,0,10.667,0,2.667,0,0,0,0.667,0,0,0,0,2,0,0,0,0.667,0,0,92.6
67,0,0.667,0,0,0,0.667,0,6,0,0,0,0,0,0,0,0.667,0,0,0,0.671,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0.685,0,0,21.528,2.74,4.11,2.083,0.943,9.524,9.375,0,1.37,3.425,0.685,0,0,0,1.37,0,0.685,0.685,
2.069,28.276,0,0,0,0,0,15.172,0,5.517,0,0,0.694,86.806,0,0.694,0.694,0,2.083,0,27.273,71.528,0,
1.399,0,4.895,0,0,2.098,1.399,0.699,0,0,0,0,0,0,0,0,0.69,12.414,0.69,91.724,0,0.699,0,0,0.699,20.
979,0,0,0,0.699,2.098,0,0,0,28.169,5.634,0.704,1.408,3.521,38.732,2.098,0.699,9.155,0,0.704,2.143
,15.493,0,0,0,0,0,0,0,0.714,0,0,0,21.583,4.348,0,1.449,1.46,45.588,0,0,0,65.693,0.73,0,77.778,2
.222,77.941,0,0.735,4.412,0,22.222,1.481,0,0.741,4.444,0,0,0,0.741,0.735,0,0,0.746,0,0,0,25.954
,0,0,46.094,4.724,2.4,9.677,1.626,0.84,0,0,0,0.901,0.893,0,0,0,0,8.602,0,0,0,0,0,0,0,0,0)
> x2 <- c(5.556,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,4.348,0,0,0,0,0,0,0,3.488,1.02,0,0,0.877,0.877,0,0
,0,0,2.632,0,10.526,0,0,0,0,0,35.345,0,0,0,0,0,0,0,0,0.862,0,85.47,0,0,77.119,0,0.847,0,0,0,0
,0.813,0,0,0,96.694,0,0,0,0.833,1.653,0,0,0,0,0,0,0,14.876,36.364,0,0,0,0,0,0,34.959,1.626,0,0.81
3,0,0,0,0,0,2.439,0,0.813,0,0,0.813,0,0,0,0,0,45.669,0,0,0,0,0,0.781,24.031,2.344,0,0,92.248,97
.674,0,0,0.775,0,0,16.279,0,0,48.837,89.922,0,8.527,2.326,0,0.769,1.55,2.326,0,0,0,0,6.25,0,0,0
.781,5.6,0,0,0,0,1.575,0,2.29,0.763,5.6,6.504,0.847,1.77,4.545,3,5,0,0,2.542,0.862,4.63,0,3.077,0
.813,0.8,4.412,1.449,0,0.709,0.68,0,0.68,2.041,44.218,8.904,4.054,6.207,9.655,0,0,0,0,3.846,3.846
,0.676,0,0,0,2,5.333,0,3.333,0,0,0.667,2.667,0,0,1.333,0,0,5.369,0,0,56.667,0,0,0,0.667
,0,0,0.667,0,0.667,0,0,0,80.667,0,0,0,0,2.667,0,91.946,0,0,0,0,0,0)
> x3 <- c(0.671,0,0,0,0,0,2,6,0,0,0,3.333,47.333,71.333,0,16,0,0,0,2.685,0,0,2.013,0,0,0.671,0,0,
7.383,0,0,0,0,0,1.342,24.832,0,27.333,0,0,2,0,0.667,0,0.667,0,14,0,0,90.667,0,0,21.333,0.667,
4,0.667,1.333,64.667,0,0,2.013,5.369,0,0,0,6.04,0,0,0,0,0,0,0,0,0,1.333,0,0,25.503,0,
0,16.779,0,5.369,0,0,0.671,0,0,0,0,0,0,0,3.356,0,0,95.333,0,0,0,0,0,0.667,0,0.667,2.667
,0,0,0,0.667,0,0,0,0,0,0,0,0,0,0,1.342,0.671,0,0,0,0,0,0,0.676,0.676,0.676,0,0.685,
23.129,1.361,2.041,8.163,0,12.308,2.721,1.361,0,4.082,0,0,0,0.68,1.361,0,0.68,4.054,23.81,0,0
,0,0,12.414,0,1.37,6.164,0,0,87.075,0.68,0.68,0,0,2.055,0,28.082,71.918,0,0.685,0,7.534,0,0,3.4
25,2.74,2.055,0,0,0,0,0.685,0,0,15.172,0,94.483,0,0.69,0,0,4.861,18.75,0.694,0,0,2.098,0,0,0.
694,0,24.306,2.778,0.694,0,2.098,41.958,1.399,2.098,14.685,0,0.699,2.113,18.31,0,0,0,0,0.714,0,
0.709,0,0,19.853,4.412,0.735,5.147,0.735,50,0,0,1.493,73.134,0,0,74.615,1.515,72.932,0,1.515,
3.03,0.758,12.879,1.515,0,0,3.759,0,0,0.746,0,0,0,0,0,0,0,23.846,0,0.787,54.331,7.937,2.419,9
.917,0,2.564)
> x4 <- c(0.862,0,0,1.818,0,0,0,0.98,0,9.783,0,0,0,0,1.449,1.961,0,0,0,0,0,0,0,0,0,0,0,0,40,0,0,0
,0,0,0,0,10,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
,0,0,0,50,0,0,0,0,0,0,5.882,0,0,0,0,0,0,0,10,0,0,0,0,0,0,0,0,0,0,0,0,1.887,0,4.167,0,0,0,0,0.885,0,
0,0,0,3.54,0,7.965,0,0,0,0,0,0,35.965,0,0,0,0,0,0,0,0,0,0,0,88.696,0,0,85.345,0,0.847,0,0,0,0,0,0
```

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,0,0,97.5,0.833,0,0,0.82,0,0,0,0,0,0,0,15.574,31.148,0,0,0,0,0,0,0,41.803,2.459,0,2.459,0,0,0,0,0
.82,1.639,0,1.639,0,0,0,0,0.806,0,0,0,0,53.226,0,1.613,0,0.806,0,0,0,37.903,0.833,0,0,85.484,95.9
68,0,1.613,0,0,0,14.516,0,0,45.161,88.71,0,5.645,4,0,0.787,3.15,0.787,0,0,0,0.775,0,5.426,0,0,0.7
75,4.8,2.362,0,0,0,3.846,0,3.876,0.775,6.202,5.426,1,1.961,0.98,0,4.255,1.562,3.704,1.481,0,4.196
,6.849,0.68,0,0,0,0,0.667,36,9.396,2,7.383,8.054,0,0.671,0,0.667,2.857,6.061,1.333,0.667,0,0,0,2,
0,0,3.333,0,0,1.333,4,0,0,0,2,0,0,0,0,5.333)
> x5 <- c(0,0,58.667,0,0,0,2,0,0,0,0,0,0,0,0,0,0,0,83.784,0,0,0,0,2.685,0,91.946,0,0,0,0,0,0,0,0,
0,0,0,0,0,0.667,2,0,0,0,3.333,44.966,70.47,0.671,19.463,0,0,0,2.013,0,0,0,0,0.667,0,0,0,10.06
7,0.671,0,0,0,0,0,0,30.201,0,28.859,0,0,0,2,0,0,0,0.671,0,14.094,0,0,94.631,0,0,21.622,1.351,4.08
2,0,0,65.306,1.361,0.671,0,1.342,4.698,0,0,0,0,0.671,0,0,0,0,5.333,0,0,0,0,0,0,5.333,0,0,26.6
67,0,0,14,0,4,0,1.333,0,0,0,0,0.667,0,0,0,0,0,0,0,0,0,0,0.671,0,94.631,0,0,0,0,0,0,2.027,1.35
1,0,0,0,0,0,0,0,1.342,0,0,0,0,0,0,0.671,0,3.333,0.667,0,0,0,1.333,0,0,0,0.671,0,1.351,2
3.81,0.68,2.899,8.108,2.479,1.504,0,1.351,0,0,2.027,0.676,0,0,0,1.342,0,0,0.676,2.703,22.297,0,0,
0,0,0,9.459,0,0,6.164,0,0,85.034,0,0.68,1.361,1.361,0,0,26.531,77.551,0,0,0.685,6.122,0,0,0.68,
2.041,1.361,0,0,0,0,0.69,0,0,0,12.414,0,90.345,0,1.379,0.694,0,5.594,20.28,2.098,0,0,0.704,0.70
4,0,1.389,0,25,5.556,0,0.699,1.399,36.364,2.098,0.699,11.888,0,0.699,1.408,19.718,0,0,0,0,0,0,1
.389,0,0,0,19.58,4.225,0,3.546,4.255,49.645,0,0,0)
> x6 <- c(0.709,65.248,1.418,0,79.433,0,79.286,0,2.837,2.817,0,19.014,0.699,0,0,4.895,0,0,0,0.704
,0,0.725,0,0,0,27.407,0,0,44.615,3.077,3.077,4.724,0,1.653,0,0,0,1.709,0.87,0,0,0.926,2.885
,5.051,0,0,0,1.538,2.326,0,8.696,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1.786,0,
0,0,0,0,0,0,0,0,0,1.695,0,0,0,0,0,0,0,1.639,1.639,0,0,0,0,0,0,0,1.429,1.429,28.788,0,92.424,0
,0,0,27.273,0,0,0,1.587,0,1.587,0,0,0,1.786,0,0,0,0,0,0,0,0,0,0,2,0,0,1.515,0,3.077,0,1.515,1.493
,37.288,34.375,0,0,0,0,4.762,0,0,5.357,3.509,0,0,1.852,0,0,0,0,8.511,0,0,0,0,7.018,0,0,1.667,0,0,
0,0,0,0,0,0,0,0,2.439,0,1.136,0,0,0,3.371,2.247,0,0,3.191,1.98,7.547,0,0,0,0,1.379,0,0,0,0,0,0,
0,0,0,0,0,0,0,0,0,0,0,0,0,2.721,0,0,1.361,0.68,0,95.27,0,2.703,0,0,0,0,0,2.027,0,0,0,0,0,0,0,0,0,
0,3.333,0,1.333,0,0,0,90.667,0.667,0,0,0.667,0,0,0,0,0,0,0,0,0,0,0,0,0.667,0,0,0,0.676,0,0,0,0,
0,0.671,75,0,0,0,1.361,0,0,0,0,0,0,0,0,0)
> x7 <- c(0,0,0,0,0.671,0,0.671,0,0,0,12,0,5.333,0,0,0,97.333,0.667,2,0.667,0,0,0.667,0,0,0,0,0,0
,0,0,0,0,0,0,0,0,0.667,2,0.667,0,0.671,0,1.361,0.893,0.87,1.471,4.054,0,0,0.676,0.671,1.3
42,0,0,2.703,9.396,0,0,0,0,0,0,81.208,0,0,0,0,0,0,0.671,0,0,0,0.667,0,0,0.667,0,0,0,0,0,0,0,0,0
,0.667,0,0.667,0.667,2,0,0.667,0,0,0,2.667,0,0,0,0,0,0,0,0,69.595,0,0,0,0.68,17.687,0,1.3
61,0,0,0.68,0,10.959,0,25,0,0,1.37,1.37,8.904,0,0,0,0,0.68,0.68,0,0.68,0.676,0,0,0,0.676,1.351,
0,2.027,0.676,0,0,10.274,31.507,1.37,0,0,0,0,0,0,0,0,0.685,0,0,0,0,0,0,0,0,0,0,0,0,57.534,0
,0,0,0,0,16.901,0,0,0,100,0,0,0,98.63,0,0,0.69,0,0,0,27.586,0,0,0,48.276,0,0,0,0,0,0,0,0,1.399,0,
0,0,0,1.399,0,0,0,2.797,0,0.699,5.594,0,0,0,0,0,0,0,82.517,0,0,0,0,12.587,18.182,0,2.158,0.735,
0,0,0,0,0,0,0,0,0,1.205,0,0,0,1.639,0,1.754,14.035,5.263,0,11.111,74.074,0,0,2.222,0,0,0,0,0,28
.205,4.762,0,0,0,7.143,0,0,0,5.714,6.452,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0)
> x8 <- c(0,1.961,0,0,0,0,2.941,0,0,0,0,0,0,0,0,0,0,0,0,2.941,1.471,0,0,0,0,2.941,0,1.429,5.634,0
,0,0,0,0,0,0,0,40.26,0,80.519,0,0,0,12,0,0,0,1.37,0,0,1.389,0,1.389,0,0,0,0,0,1.961,1.429,0,0,0
,0,0,0,1.613,3.226,0,6.25,0,34.375,50,1.37,0,0,0,6.41,3.896,0,0,3.846,2.632,4.054,0,0,0,0,0,1.852
,0,0,0,0,0,3.125,1.562,0,1.299,1.299,0,3.529,1.163,1.163,2.273,1.099,0,0,1.053,2.062,1.942,0,0.90
1,3.448,5.983,0.847,0,0,0,0,1.361,0.68,0,2.041,0,0.68,0,0,0,0,0,0,0,0,0,0,0,2.721,0,0,0.6
8,0.685,0.69,0,95.172,0.69,0,0,0,0,0,0,2.055,0,0.685,0,0,0,0,0,2.685,0,0.671,0,0,0,90.604,1.3
42,0,0.671,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0.676,0,0,0.676,0,77.703,0,0.676,0,5.405,0,0,0
,0,0,0,0.667,0,0,0,0,0,0,0,0,0,0,0,0,0,0,8,0,9.333,0,0,0,0,98.667,0,6,0,0,0,1.333,0,0,0,2,0,0,0,0
,0,0,0,0,0,0,0,0,0,0.69,0.694,0.694,0.694,1.399,0,0,0,0.704,0.704,0.694,0,0,1.342,0,0.671,0,1.333
,8.725,0,0,0,0,0,88.591,0,0,0,0,0,0,0,0,0,0,0,0,0.671,0,0,0.671)
> x9 <- c(0,0,0,0,0,0,0,0,0,0.671,0,1.342,0,0.671,0,0,0,0,0,0.671,0,0,0,0,0.68,0.676,0,0,0,0,0,
70.47,0,0,0,0,18.919,0.671,0,0,1.342,0,0.671,7.383,0.671,24.832,0,0,0,0.671,11.409,0,0,0,0,0,0.68,0
.68,0,0,0,0,0,0,0,2.041,0,0.68,0,0.685,0,8.904,31.507,0.685,0,0,0,0,0,0.699,0,0,0,0,0,0
,0,0,0,0.694,0,0.694,0,0,61.806,0,0,0,0,15.493,0,0,0,99.306,0,0,0,97.222,0,0,0,0,0,29.167,0,0
,0,47.222,0,0,0,0,0,0,0,0.709,0,0,1.418,2.128,0.709,0,0.709,0.709,2.837,0,0,7.801,0,0,0,0.709,0
,0,0,0,77.857,0,0,0,0,15.108,13.043,0,2.206,0,0,0,0,0,0,0,2.381,0,0,0,0,1.613,1.639,0,2
7.119,5.085,0,78.571,0,0,0,10.811,0,0,30,5,0,0,0,8.333,0,0,3.03,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0,0,0,0,9.524,0,0,0,0,0,0,0,0,0,0,0,5.97,0,0,0,0,2.941,0,0,30.435,0,0,1.
449,0,0,0,0,0,0,60,0,61.429,5.714,0,0,7.246,2.899,1.429,2.857,0,0,1.493,1.515,3.125,0,0,1.961,0,0
,0,0,0,0,10.256,4.545,0,0,0,2.174,10,0,2.273,23.214,31.034)
> x10 <- c(0,0,4.348,0,0,3.333,0,0,1.408,0,1.389,1.099,2.128,0,0,1.02,0,2.02,1.01,0.98,7.692,2.80
4,7.826,0,0,0,0,0,2,0,0,0.667,0,0,0,0,0,0,0,0,0,0,0,0,0,0,3.333,0,0,0,0,0.671,0,97.315,0,0.
676,0,0,0,0,1.342,0,0,0,0,0,0,0,0,0,2,0,0.667,0,0,94.667,0.667,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
0,0.667,0,0,0,0,0,0,0,0,2,81.333,0,0,0,4,0,0,0,0,0,0,0,0,0,0,0,0,0,0.671,0,0,0,2.667,0,4.
667,0,0,0,98.667,0.667,2.667,0,0,0,0,0,0,0,0,0,0,0,0,0,1.333,0,0,0,0.667,0,0.67
1,0,0,0,0,0.667,0,4,0,0,1.342,0,0,1.333,12.667,0,0,0,0,0,92.617,0,0,0,0,0,0,0,0,0,0,0,0.6
67,0,0,0.667,0,0,0,0,0,0,0,0,0,1.333,0,0,0,0,0.667,0,0,0,0,0,0,63.333,0,0,0
,0,26.667,0,0,0.671,0.671,0,0,0,0.671,0,30.872,0,33.333,0,0.68,0,14.286,0,0,0,0,0,1.361,0,0.68,0,
0,0,0,0,2.027,0,1.351,0,0.68,0,15.646,31.973,0,0,0,0,0,0,0.676,0,0,0,3.378,0,0)
> x11 <- c(0,0,0,0,0,0,0,0,0,0,0,0,0,0,65.101,0,0,0,0,0,16.779,0,0,0,100,0,0,0,97.315,0,0,0,0,0,0,36.
913,0,0,0,45.946,0,0,0,0.676,0,0,0,0,0,0,0,0,0.69,1.379,0,0,0,2.069,0,0,5.517,0,0,0,0,0,0,0,0,82.
069,0,0,0,0,15.172,14.483,0,0,0,0,35.135,2.985,18.644,0,0,0,5.455,0,0,0,0,0,2,0,0,0,0,0,0,0,93.
333,0,0,47.727,0,0,0,0,0,0,0,0,0,0,5.556,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,83.333,0,16.667,83.333,8
```

```
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,2.299,1.923,0,0,3.03,0,0,2.857,0,0,
0,0,0,0,0,0,3.425,0,0,0,4.11,0,0.685,52.055,0,0,0,0.68,0,0,25,0,0.676,0.671,0,0,2,0,0,0,0,0,0,0,2
0.667,0,0,0,0.667,0,1.333,46.667,0,0,0,0,0,0,0,0,0,22,0,0,64.667,0,0,2.667,0,0,0,0.671,3.333,0,
3.333,0,1.333,0,0,5.333,0,0.671,0,0,0,0,0,1.333,0,0,0,0,10.667,0,1.37,0,6.667,10,0,2.667,0,0,3.
333,0,0,0,0,0,0,0,0,0,0,0,0,0,11.333,1.333,0,0,0,11.333,0,2.667,0,0,2.667,0,0,0,0,0)
> x12 <- c(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,2,0,0,0,0,0,0,0,0,0,0.667,0,93.333,0.667,2,0.667,0,71.333,
4,0,0,0,10.667,0,0,0,0,0,0,0,0.667,0,0,0,1.333,6,28,0,0,0,0,31.333,0,0,2.797,0,0.667,0,0,0,4,0.
667,0,0.667,0.667,0.667,0.667,0,0,0,3.333,0,0,1.333,14,0,0,1.333,0,0.667,0,1.333,0,2,0,4.667,0,0,
0,0,2.013,0,0,4.698,0,0,0,0.667,0.667,0.667,0,0,0,0.671,39.333,0,0,0,0,1.333,0,0,0.667,0,0,0,98.6
67,0,0,0,0,0,0,0,0,20.667,0,0.667,0,0.667,18.919,0,6.711,2.013,1.351,0,4.054,0,0,0,0,0,0.676,0.67
1,0,0,0,0,0,17.333,0,0,0,0,0,0,4.667,0,1.333,2.013,0,0,0.676,0.676,1.361,0,0,0,0,0,0,0,0.68,0
,0,0,0,0,0,0.676,3.378,0,0,0,7.432,0,1.351,1.351,0,0.676,3.378,0,36.486,1.351,7.432,0,12.162,0,0,
0,0,0.676,0,39.189,0,0,0,0,0,4.054,0,0,0,18.243,0,0,0,0,0,13.699,0,0,0,0,0,9.589,0,28.082,0,4
.795,13.699,0,0.685,0,1.37,0,0,0,0.694,0,0,0,0,0,0,0,1.493,0,0,0,0.8,0,0,31.452,45.902,0,10.811,0
.935,10,1.064,0,0,0,1.299,0,0,1.961,0,0,0,0,1.754,0,0,1.818,0,0,1.852,1.961,0,0,0,0,0,0)
> x <- c(x0,x1,x2,x3,x4,x5,x6,x7,x8,x9,x10,x11,x12)
> shapiro.test(x)

        Shapiro-Wilk normality test

data:  x
W = 0.29227, p-value < 2.2e-16

>
```