R version 4.3.1 (2023-06-16 ucrt) -- "Beagle Scouts" Copyright (C) 2023 The R Foundation for Statistical Computing Platform: $x86\ 64-w64-mingw32/x64\ (64-bit)$

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Type 'demo()' for some demos, 'help()' for on-line help, or 'help.start()' for an HTML browser interface to help. Type 'q()' to quit R.

[Previously saved workspace restored]

```
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,9.63,4.478,0.746,0,0.763,8.462,29.545,0.752,0,6.818,0,2.273,7.576,22.727,15.909,0,3.008,6.767,6.
767,4.478,5.224,8.955,1.493,21.805,18.182,1.527,20.611,1.538,12.308,13.077,6.923,28.346,12.598,3.
968,11.29,10.744,5.128,0.855)
> x4 <- c(0.862,0,0,2.727,1.852,1.835,4.717,10.784,3.125,6.522,6.742,8.434,2.597,0,2.899,3.922,0,</p>
0,0,0,0,0,0,30,0,0,0,7.692,0,11.111,17.391,11.538,20.69,18.182,20,6.818,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,11.321,3.39,5.556,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.082,4.08
.301,0,0,0.885,0.885,0,0.885,0,0,13.274,0,0,10.619,0,1.77,39.823,23.009,0,2.632,6.087,78.261,0,0,
0,0,78.947,0.877,0,0,0,0,3.448,0.862,0.862,0,0,0.84,0,0.833,15.833,0,1.653,29.167,0,0,14.167,10,18.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.888,0.8
2.397,6.557,27.869,13.934,6.557,0,11.475,0.82,13.934,0.82,3.279,0.82,0,11.475,4.098,7.377,0,0,0.8
2,0,0,0,0,2.459,24.59,0.82,31.967,3.279,1.695,0.82,12.295,11.475,0,3.252,0,0,0,32.258,0,10.484,0.
806,7.258,25.806,34.677,27.419,18.548,3.226,4.032,33.333,3.226,16.129,0,0,4.839,48.387,13.71,4.83
9,4.839,0.806,2.419,10.484,0,0,0.806,18.548,0.8,0,0,1.575,2.362,10.853,7.752,0,0,2.4,3.101,0,0,0,0
1.6,0,0,3.361,3.937,0,0,23.256,5.426,6.977,3.876,7,4.902,0,4.918,10.638,3.906,4.444,2.222,7.353,2
.098, 8.219, 11.565, 0.676, 0.671, 22.819, 6.04, 2, 0.667, 0, 0.667, 0, 8.725, 69.128, 0, 0, 10, 5.714, 0, 0, 0.667, 0
,4.667,0,0,8.667,0,3.333,30,8.667,1.333,0,3.333,10.667,4,1.333,2.667,6.667,14,14,0.667)
> x5 < -c(34,10,43.333,0.667,4,4.667,13.333,2.667,0,0,67.333,0,0,4,0,0,76.51,81.081,0,19.595,0,4.
698, 4.027, 2.013, 0, 0, 56.081, 43.243, 1.351, 11.486, 27.703, 0, 2.703, 32.886, 2.667, 0, 42.667, 0.667, 0, 0, 0, 0
,7.333,0,0,17.333,8,0.671,0,8.054,6.04,1.342,2.685,2.013,0,0,1.342,2,1.333,6.667,0,94.667,0,17.45
,0,0,8.054,9.396,0,18.121,0.671,0,0,4.027,0,25.333,0.667,2.667,0,22.148,7.383,8.725,3.356,0.671,0
.671,0,0,0,0.671,1.351,0,0,0,18.367,0.68,2.041,0,2.685,9.396,16.779,34.899,5.369,14.094,22.819,0,
1.342,6.711,0,0,13.333,19.333,2,0,2.667,54,29.333,0,0.667,43.333,4.667,0,0.667,0,0,1.333,7.333,1.
333,0,43.333,0,42.667,0.667,2,89.333,27.333,1.333,0,11.111,0,2.013,0.671,0,22.819,0,30.201,27.517
,0,0,0,7.383,33.557,0,0,0,0,20.27,0,3.378,6.711,0,0,31.333,2.667,0,0,6.667,0,6.04,2.685,8.725,6.7
11,0,10.738,0,0,0,10.067,31.544,1.333,35.333,0,14,28,30,0.671,4.027,23.49,15.436,0,3.378,2.721,1.
361,1.449,22.297,2.479,0.752,0.752,0.676,0,3.378,9.459,17.568,27.703,5.405,16.892,31.544,8.725,24
.324, 24.324, 0.676, 0.676, 5.405, 11.486, 0, 1.351, 11.486, 0.676, 52.027, 0, 0, 2.041, 0, 6.122, 0.68, 39.456, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.406, 16.
.327, 1.361, 2.721, 17.007, 0, 1.361, 0.68, 6.803, 5.442, 2.74, 7.483, 6.803, 14.286, 6.803, 11.565, 24.49, 17.00
7,11.644,5.479,0,17.241,27.586,13.793,44.828,2.759,0,37.931,0,0,24.138,0.694,0.694,1.399,4.895,0,
0.704, 26.056, 1.408, 3.521, 0, 3.472, 0, 2.083, 0, 4.167, 2.797, 6.294, 4.196, 2.098, 0.699, 13.986, 1.399, 0, 10.
563,14.789,20.979,3.472,0,21.379,14.583,8.333,9.722,10.417,16.667,9.028,25.175,2.797,0.704,8.511,
36.879, 1.418, 0, 6.338, 2.817, 7.801)
> x6 <- c(2.837,2.128,0.709,0.709,4.255,31.206,0,0,3.546,0,2.817,5.634,24.476,13.986,0,3.497,8.39</p>
2,6.993,6.993,7.746,9.286,1.439,23.741,15.108,2.899,26.087,0,11.679,17.778,6.818,26.923,13.077,4.
615,10.769,6.299,8.264,1.653,0,0,0,4.274,5.217,0,0.917,11.111,2.885,5.051,4.167,10.87,0,0,4.615,4
695,0,0,1.695,69.492,1.695,52.542,49.153,98.305,0,62.712,5.085,0,0,6.667,0,0,0,0,0,0,70.312,84.61
5,85.507,0,2.857,30,0,0,1.515,0,0,3.03,0,0,0,0,0,4.688,1.587,6.25,0,24.074,1.786,1.818,3.571,3.33
3,0,9.615,0,0,4.082,0,4.651,2.381,2.381,0,1.754,5.263,4.545,3.03,0,15.385,13.636,0,1.695,1.562,0,
1.562,0,6.349,31.746,12.903,28.07,1.786,5.263,0,12.5,1.852,0,0,18.868,0,8.511,4,3.922,0,1.724,0,3
.448,10.714,5,4.762,1.587,0,8,16.216,6.757,0,7.143,0,2.439,6.024,2.273,0,1.124,1.124,4.494,1.124,
0,1.124,9.574,2.97,1.887,10.619,0,1.613,0,48.905,0.69,64.384,0,21.233,0.685,0.685,0,2.041,0,0,8.1
63,67.347,0,0.68,8.163,46.259,0,0,4.082,54.422,0,1.361,3.401,2.041,0,0,14.966,0,0,2.027,9.459,0,0
,4.054,6.081,0,0,22.819,16.107,1.333,2.667,19.333,0,0.667,20.667,21.333,0,0.667,1.333,0.667,0,0,0
,2.667,28.667,0,1.333,16.667,0,0,1.333,4.667,0,0,36.667,0,0,0,0,0.667,0.667,68,0,0,0.676,0.676,0,
8.108, 0, 0, 34.899, 0, 1.351, 0.676, 0, 1.361, 0.676, 0, 0.671, 3.333, 7.333, 0.667, 0.667, 9.333, 7.333, 0)
> x7 <- c(0,0,3.356,0,5.369,0,65.772,0.667,44.667,0,0,0.667,1.333,0,0,49.333,0,0,0.667,0.667,50.6</p>
67,0,0,1.333,17.333,0.667,0,2,40,4,1.333,7.333,18,5.333,10.667,5.333,0,0.671,8.725,3.333,4.667,3.
333,6.667,41.333,1.333,0,1.361,6.803,6.25,33.913,12.5,2.027,3.356,2.027,10.811,9.396,0,2.685,0,8.
784,1.342,0.671,0,6.122,1.351,0,0,0.671,4.054,2.685,44.295,11.409,2.685,4.027,0,1.342,2.013,5.369
,0,0,20,2,22,0,3.333,1.333,0,0,0,2.667,0,0.667,0,0,2.667,1.333,2.667,0.667,0,0.667,1.333,0.667,0,
0, 6, 0, 18.121, 19.048, 0, 0.68, 1.361, 2.041, 1.351, 18.243, 0, 0.676, 21.622, 8.784, 0, 26.531, 5.442, 8.844, 0.68
8,23.81,12.245,3.401,1.361,0,1.37,2.027,0,0.69,0.685,2.055,4.795,0.676,2.703,12.838,0,0.68,25.17,
30.612,40.136,0,18.919,0.676,4.73,4.73,6.081,49.324,0,1.351,2.703,1.351,1.37,13.014,0,8.904,4.795
,5.479,13.699,0.685,2.069,1.379,2.759,15.068,0,0,0.685,4.795,0,6.803,80.272,0,0.69,0.685,4.795,10
.274,0,0.685,0,0,0,0,97.26,0,19.178,0,0,43.662,0,76.027,0,0,0,86.301,0,0,0.685,0,0,52.414,0,12.41
4,0,16.552,0,0,2.069,21.379,0,0,6.207,13.889,0,0,2.098,13.986,72.028,0,4.895,16.084,0,0,1.399,0,4
.196,1.399,28.671,2.797,13.986,0,27.273,16.197,0,15.385,6.993,0,4.895,0,18.881,1.399,7.692,0.699,
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0, 3.401, 2.721, 0.68, 0, 0, 17.931, 0, 0, 2.069, 10.345, 0.69, 1.379, 2.759, 8.844, 0, 0, 17.808, 20.548, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685
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07, 2.013, 3.356, 0.676, 0.676, 4.762, 4.054, 0.676, 0, 16.779, 4.027, 20.805)
, 0.676, 20.946, 20.946, 0.68, 4.054, 0, 0, 0, 18.121, 0.671, 1.342, 24.832, 8.725, 0, 27.703, 2.027, 10.738, 1.351
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> x10 <- c(3.39,0,4.348,15.517,14.545,3.333,5.714,4.286,1.408,4.225,4.167,4.396,2.128,3.191,0,2.0</p>
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> x11 <- c(0,1.342,79.195,0,0,0,2.685,0,0,2.013,0,0,0,0,99.329,0,25.503,0,0,59.732,0,90.604,0,0,0</p>
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28,7.692,3.448,0,0,1.538,0,0,0,1.923,0,0,0,6.522,7.143,13.38,6.294,17.483,16.084,4.861,0,4.138,
34.932,0,1.37,1.37,2.055,0.685,7.534,0.685,19.863,0,7.534,0,0,0,0,0,0,0.676,1.342,1.333,15.333,0.
667,1.333,0,19.333,0,0.667,0.667,36.667,30,0,3.333,40,0,0,14.667,0,0,16.667,40.667,26,2.667,15.33
3,11.333,0,0.667,28,0.667,0,0.667,0.667,3.333,41.333,4,9.333,0,3.333,0,7.333,3.333,0,38,0.667,0,5
.333,0.667,53.02,1.342,0,12.752,17.45,0,13.333,2,0,0,10.667,2,1.333,0,50,0,0,0,2.667,15.333,0,10,
17.333,0,0,0,28,48.667,0,8,42,0,0,28,0,4,0,0,1.333,7.333,0.667,0,0.667,1.333,10,4.667,15.333,10,0
,10,0,0,0,0)
> x12 <- c(62.667,0,3.333,64.667,2.667,0.667,0.667,1.333,0,9.333,0,14,0,3.333,0,0.667,25.333,31.3</p>
33,0,0,2,38.667,0,0.667,8.667,0,0,0,16,0,0,0,2,40,0,0,12,41.333,8.667,0,4.667,14.667,27.333,8,8.6
67,4.667,51.333,12,12.667,2,1.333,1.333,24.667,3.333,0,2.667,5.333,4.667,0.667,8.392,2.721,0,0.66
7,2,0,4,3.333,1.333,10.667,14,2,10.667,10.667,1.333,57.333,17.333,17.333,7.333,4,2,32.667,14,17.3
33,21.333,7.333,0,2.667,4,1.333,0,0.667,0,0,0.671,1.342,0,0,0.671,0,24.832,6.329,0.671,2,0.667,0,
1.342,0,4.698,11.409,11.333,59.333,0,7.333,38,0,20,4,3.333,1.333,2,10.667,0,0,9.333,2,0,0.667,6.6
67,2.667,0,6.667,13.333,4.667,0,0,10.811,3.356,3.356,4.698,0.676,0,9.459,6.081,3.378,54.73,6.757,
0,0.676,14.094,9.333,12,4.667,22,1.333,0.667,1.333,0.667,16,0,0,19.333,0,11.333,0,0.667,2.013,0.6
76,2.027,0,2.027,2.041,16.327,13.605,40.136,25.85,13.605,0,49.66,25.85,4.082,0,10.884,0,13.514,0,
0.68, 3.378, 3.378, 29.054, 0, 11.486, 1.351, 0.676, 0, 11.486, 2.027, 1.351, 1.351, 8.108, 7.432, 0, 0.676, 0, 0, 0
.676,0,0,1.351,1.351,0.676,0,0,5.405,75.676,0,0,16.216,2.027,0,0,19.595,0,0,13.514,0,0,12.925,21.
233,0,0,6.849,32.192,0,0,9.589,2.74,9.589,0,2.055,10.274,0,0,0.685,3.425,0.685,3.425,5.479,27.083
,7.692,10.49,8.392,6.338,2.837,4.255,17.266,28.358,6.25,19.841,23.2,13.6,5.6,20.161,0,0.82,6.034,
11.712, 0.935, 0, 2.128, 1.087, 1.163, 0, 1.299, 21.538, 1.923, 1.961, 1.923, 0, 3.846, 5.66, 0, 0, 6.818, 0, 0, 0, 1.
852,3.922,0,2.222,0,0,0,0)
```

```
> x < -c(x0,x1,x2,x3,x4,x5,x6,x7,x8,x9,x10,x11,x12)
,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,
,0,0,3.125,0,2.273,0,0,5.303,9.091,5.303,0.758,2.273,9.848,7.576,0.758,3.101,3.788,22.727,1.515,0.758,3.101,3.788,22.727,1.515,0.758,3.101,3.788,22.727,1.515,0.758,3.101,3.788,22.727,1.515,0.758,3.101,3.788,22.727,1.515,0.758,3.101,3.788,22.727,1.515,0.758,3.101,3.788,22.727,1.515,0.758,3.101,3.788,22.727,1.515,0.758,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.273,2.272,2.272,2.272,2.272,2.272,2.272,2.272,2.272,2.272,2.2
,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
.013,3.333,0,0,0,0.667,0,14.667,34,0,0,0.667,2,0,0,84.564,0,58.389,0,0,0,0.671,0,0,10,1.333,0,0,0
,0.667,2,0,87.333,0,0.667,0,0,3.333,6.667,0,0,1.342,0,0,0,28,0.667,1.333,0.676,6.757)
  y1 < -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
3,2.667,2,4,0,9.333,0.667,19.333,26,0.667,0,0,0,0,2,0,8,2.667,0,2.667,0,1.351,0,14.765,2.685,2.01
3,12.752,20.134,16.107,7.383,0,12,2,96,0,0,0.667,0,0,2,9.333,2.667,0,4.667,10,0,0,0,0.667,0.667,2
.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.
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.
479,4.138,0,0.69,0.69,0.69,2.759,4.138,6.897,10.959,76.027,0.69,0,0,1.389,0,0.694,0,20.139,0,0.69
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.
759,0.69,3.448,0,0,0,0,0,0.699,0.699,0,1.399,0,0,0.699,1.399,2.797,0,11.972,0,3.521,3.521,8.451,2
.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,
0,0.735,4.444,2.222,0,0,0,3.704,2.222,6.667,5.926,1.471,5.147,1.481,0.741,0.746,0.752,0,3.817,4.5
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)
.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
33,3.279,0,0,0,0,32.52,1.626,1.626,0,3.252,0.813,31.707,2.439,0,2.439,0,0,0,0,0,0,0.806,0,4.724,0.7
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
7,6,0.667,1.333,0.667,8,0,9.396,2.013,2.667,0.667,0,0.667,1.333,0,0,0,2,0.667,16,30,0,0,0,0,0,0,0,8
7.333,0,60,0.667,0,0,0,0.671,0,14.094,2.013,0,0,0,0.671)
> y3 <- 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,</p>
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
85,1.342,16.107,20.805,8.054,10.738,0,14.765,1.342,96.644,0.671,0.671,0,0,0,0.671,8.667,3.333,0,5
.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
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, 0.741, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.71, 14.7
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)
> y4 <- c(3.448,1.739,47.748,0.909,3.704,0.917,2.83,0.98,4.167,5.435,1.124,14.458,28.571,1.316,13</p>
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R Console Page 5

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> y5 <- c(7.333,2.667,2,0.667,0,2,2,0,0,0,0.667,16,36.667,0,0,0,0,0,0,87.248,0.671,63.758,0,0,0
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> y6 <- 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.</p>
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R Console Page 6

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> y10 <- 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,</p>
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> y11 <- c(0,0.671,2.013,0,37.162,1.342,0,0.671,0,32.886,0,0,0,0,0,7.383,0,0,16.107,0,0,0,5.3</pre>
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> y12 <- c(0,0.667,76.667,16,1.333,0,8.667,0,0,44,0,32.667,0,0,0,6,1.333,0,0,18.667,0,0,0,1.333</pre>
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15.385, 9.434, 3.509, 74.074, 0, 1.818, 0, 5.357, 57.407, 11.765, 0, 0, 0, 0, 0, 100)
 y \leftarrow c(y0, y1, y2, y3, y4, y5, y6, y7, y8, y9, y10, y11, y12)
> z0
    <- c(4,3,7,7,7,8,8,2,8,6,5,5,5,4,4,3,4,2,3,3,8,3,3,5,3,3,4,3,5,5,3,5,4,3,2,4,4,5,2,4,3,3,4,1</pre>
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8, 1, 3, 9, 8, 1, 6, 8, 6, 4, 8, 4, 4, 4
> z1 <- c(6,9,2,3,4,4,9,9,5,8,9,8,7,9,8,8,8,9,7,7,6,6,6,9,5,7,7,7,7,7,7,9,8,9,5,8,5,8,8,7,5,5,9,7,4
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,7,4,5,7,5,4,9,5,5,6,7,5,7,6,9,9,4,3,7,6,4,2,8,7,5,5,9,6,8,3,4,5,3,1,4,6,5,4,7,9,3,4,4,7,9,3,5,6,
2,3,7,7,4,5,6,4,4,4,4,3,3,5)
> z6
    <- c(4,5,5,3,6,2,7,8,1,7,7,4,3,5,9,6,3,6,6,4,5,7,6,4,4,8,8,3,3,6,4,3,4,4,1,3,4,3,9,5,4,1,5,7</pre>
,4,4,1,4,4,5,8,1,1,3,3,4,6,5,2,4,6,8,8,5,6,8,5,4,3,6,2,2,4,4,3,6,1,3,5,8,5,5,4,8,5,9,8,5,8,8,8,4,
9,9,6,8,9,9,7,8,9,9,9,6,8,7,7,8,9,9,7,9,7,7,8,7,4,5,5,5,4,4,3,4,3,4,1,3,1,1,1,3,1,1,4,3,1,4,1,1
3,4,4,1,3,4,5,2,3,6,4,4,9,8,4,5,7,9,4,8,8,9,9,9,9,5,6,9,8,5,5,9,9,5,8,9,4,6,8,8,7,6,9,8,6,5,9,8,6
,4,9,8,2,6,7,7,2,9,8,4,5,9,9,8,7,4,7,8,3,5,9,7,3,9,9,7,6,9,9,5,9,9,9,7,8,8,8,7,9,8,8,8,8,9,7,5,7,
5, 8, 8, 2, 8, 9, 7, 5, 8, 8, 7, 5, 9, 7)
> z7 <- c(8,7,8,9,5,9,7,8,6,9,9,8,7,9,8,5,7,9,6,7,5,8,9,5,5,9,9,7,5,8,8,3,5,6,5,3,7,6,3,6,8,6,1,5
,6,6,6,4,4,3,3,3,4,4,2,4,4,6,5,7,3,5,9,5,4,9,6,6,9,6,5,7,8,7,7,8,6,6,7,9,7,5,8,8,7,8,9,8,8,8,8,6,
8,9,6,5,6,8,4,7,3,5,8,7,6,9,5,7,8,8,9,7,9,5,8,9,7,6,7,8,8,5,8,7,4,7,7,5,5,5,7,7,7,5,6,7,5,3,8,7,3
,5,7,7,4,7,6,4,3,7,9,4,7,3,5,6,3,5,8,7,3,9,7,5,4,7,9,7,8,8,9,8,8,9,9,8,8,8,9,6,9,7,5,8,9,9,6,9,8,
5,7,7,9,9,8,9,9,9,8,8,9,7,9,8,8,5,9,8,8,5,9,9,6,4,8,8,5,6,7,4,3,5,8,9,4,5,8,8,5,4,7,7,4,4,8,5,1,8
,7,9,5,6,1,1,8,6,5,6,6,4,4,6,8,5,5,4,7,5,5,5,5,5,1,3,5,5,3,4,4,4,4,4,5,3,1,1,3,4,5,5,4,3,4,2,6,6,4,
6, 2, 5, 4, 7, 5, 8, 8, 6, 3, 4, 3, 4, 2)
    <- c(2,1,4,5,4,4,4,8,4,9,6,4,8,8,8,5,9,9,7,6,9,9,8,9,9,8,9,9,7,9,8,9,9,9,9,8,8,6,7,8,6,4,4,4</pre>
> z8
4,1,3,1,1,1,1,1,1,1,1,1,1,1,1,3,1,5,1,2,3,4,1,3,6,2,4,7,8,5,4,8,9,5,9,8,9,9,9,9,5,7,9,8,5,6,9,8,6,8
,9,4,7,9,8,7,7,9,9,5,5,8,8,7,5,9,8,3,7,7,7,3,9,8,4,5,9,9,7,7,4,8,8,3,5,9,7,4,9,9,7,7,9,9,6,8,9,8,
8,8,8,9,8,8,8,8,9,8,9,7,5,7,5,7,8,3,8,9,8,5,8,8,7,9,8,8,8,8,9,8,9,8,9,8,8,7,9,8,8,8,9,9,5,8,9,5,6,7
,8,9,5,7,9,9,7,5,9,8,4,6,6,6,3,7,6,3,7,8,6,3,6,6,5,6,4,4,3,4,2,4,5,3,4,4,6,4,6,2,5,9,5,5,9,7,7,9,
5, 6, 7, 8, 6, 7, 9, 6, 7, 7, 9, 7, 6, 9)
 z 9
    <- c(8,7,8,9,7,8,9,8,6,8,9,5,4,6,9,4,6,4,6,7,7,7,9,5,7,9,8,9,7,9,6,8,9,7,6,8,9,7,5,8,8,4,7,7</pre>
,5,5,5,7,8,8,7,6,7,6,4,8,8,4,5,7,8,4,7,7,5,4,7,8,6,7,4,5,7,1,3,8,7,3,8,7,5,3,7,9,8,8,8,9,8,8,9,8,
9,8,8,9,6,9,7,6,8,9,9,6,9,8,5,8,8,9,9,8,9,9,9,9,8,9,8,9,8,9,5,9,8,7,4,9,9,6,4,8,8,5,7,9,4,4,6,9,9
,4,4,8,8,5,4,7,8,4,5,7,6,4,8,7,9,6,7,2,4,9,6,5,6,6,4,4,6,8,5,5,4,6,6,5,4,5,4,6,3,4,4,6,3,6,5,5,5,5,
3,1,1,4,4,4,4,4,3,4,2,7,7,4,6,5,6,8,8,5,3,5,7,3,3,3,5,9,3,6,5,4,5,3,3,3,2,4,1,3,3,5,5,5,4,5,4,9,6
,5,7,6,8,5,8,9,7,7,8,9,7,9,9,9,9,9,8,9,8,9,9,9,9,8,9,6,6,7,7,3,4,4,4,1,1,1,2,1,3,2,2,2,1,1,3,3,2,
6, 4, 1, 3, 1, 4, 1, 1, 2, 3, 3, 5, 1, 1
> z10 <- c(4,7,2,4,2,1,1,1,1,1,1,1,1,1,1,3,1,2,4,3,2,3,5,3,5,8,8,4,5,8,9,4,8,9,9,9,9,9,9,6,6,9,8,4,
5,9,9,5,8,9,5,5,9,9,8,7,9,9,7,6,9,7,6,4,9,8,3,8,8,8,2,9,8,4,5,9,9,7,8,4,8,8,3,5,9,7,3,9,9,8,5,9,9
,5,9,9,9,8,9,9,8,9,8,9,8,9,9,9,8,6,7,6,8,9,3,9,9,7,5,9,8,8,8,9,9,9,9,9,9,9,7,9,8,9,6,9,9,9,8,9,8,5,
8,9,5,6,6,8,9,5,5,9,9,6,6,9,9,3,6,7,7,2,9,7,3,6,8,5,3,5,7,6,9,4,4,1,2,3,3,3,4,4,5,5,4,4,4,6,6,7,3
7,9,7,9,6,9,9,8,6,9,9,8,4,8,8,4,6,8,5,4,6,8,6,4,7,9,6,5,6,6,3,8,7,3,4,8,6,4,7,7,4,3,6,9,5,7,4,5,7
,3,4,8,7,3,9,7,5,4,6,9,7,8,8)
> z11 <- c(9,8,8,9,9,8,8,9,9,5,9,7,5,9,9,9,5,9,9,6,8,8,9,9,8,8,9,9,9,9,9,9,8,8,8,4,9,8,8,4,9,9,7,
5,9,8,4,7,8,4,4,5,9,9,4,5,8,8,4,4,8,7,5,5,8,5,3,8,7,9,5,5,1,3,9,6,5,7,5,4,5,5,5,5,5,4,5,7,4,5,4,7,5
,4,6,4,6,1,7,5,8,5,7,5,4,5,5,6,6,2,2,2,1,1,2,1,1,2,3,5,3,3,4,5,4,3,2,4,9,4,4,5,4,4,5,5,5,5,5,7,4,
4,2,2,4,1,4,4,2,1,1,3,1,2,2,1,1,1,2,2,3,2,2,2,3,3,3,6,6,5,3,8,4,4,7,7,3,7,5,7,6,6,9,7,6,8,7,7,8,8
,9,8,8,8,9,9,8,9,3,8,9,5,4,9,8,6,8,5,8,5,7,9,5,9,9,8,6,8,8,6,7,7,8,4,5,9,8,4,6,9,6,6,7,7,3,7,9,6,
8,6,7,8,5,4,9,7,6,6,8,7,3,7,8,7,5,9,9,5,8,7,4,5,4,3,6,3,2,9,8,2,6,8,8,3,7,9,6,4,8,9,4,9,8,7,8,7,6
,9,9,8,7,8,7,6,8,6,5,9,9,5,8)
 z12 <- c(8,8,8,8,6,9,6,8,9,7,8,7,9,7,9,7,8,6,9,9,6,5,9,8,4,9,8,6,4,8,9,8,5,5,9,9,5,4,7,9,5,3,6,
7,3,5,6,5,4,7,4,3,5,8,8,1,3,1,4,1,1,3,2,3,8,5,2,3,7,5,4,5,6,5,7,1,4,5,4,3,5,7,4,6,4,8,5,6,7,6,8,8
,8,8,9,8,8,7,9,8,4,3,5,8,3,8,5,4,4,4,8,9,6,7,8,8,7,5,7,6,5,9,7,5,6,9,9,4,5,9,4,4,7,9,5,1,3,3,4,7,
5,3,5,7,4,1,9,5,1,3,5,5,2,5,7,4,4,6,9,9,5,8,5,5,4,4,1,5,4,7,5,5,5,7,3,6,8,5,4,5,9,4,7,5,5,6,6,4,7
,7,7,7,5,5,6,8,3,5,8,4,4,4,9,6,5,6,6,7,6,9,8,8,7,8,9,9,6,7,7,9,5,8,9,5,9,7,9,4,9,9,6,5,8,9,3,7,5,
7,3,5,5,9,4,4,6,7,7,5,7,6,1,3,4,3,3,6,5,2,3,4,1,2,5,4,3,1,4,1,1,3,1,3,1,3,3,1,1,2,2,1,1,1,6,4,5,8,4
,5,2,8,7,2,3,8,8)
> z <- c(z0,z1,z2,z3,z4,z5,z6,z7,z8,z9,z10,z11,z12)
> library(PResiduals)
> partial Spearman(x | y ~ z)
                                                 lower CI
                      est
                             stderr
                                                          upper CI
                                               р
```

partial Spearman 0.1650157 0.0161423 1.059209e-23 0.1332179 0.1964741

R Console Page 8

Fisher Transform: TRUE Confidence Interval: 95% Number of Observations: 3894