Page 1

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

```
> rm(list = ls())
10,33.333,16.667,45.455,0,0,0,6.25,12.5,31.25,0,9.524,9.091,3.846,3.704,3.03,2.564,0,3.846,0,9.21
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154,8.333,1.471,10.145,2.158,2.857,10.638,0.685,0,22.297,3.356,2.013,0.671,0,0,0.671,11.409,73.82
6,0.667,1.333,6,3.571,0,0.667,0.667,0,4,0,0.667,7.333,0.667,3.333,18.667,8,1.333,0,2.685,17.45,3.
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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>
,0,0,0,0,0,0,0,0,0,57.143,0,0,0,50,50,0,0,25,0,0,0,60,0,0,0,16.667,0,0,0,0,7.143,20,0,12.5,0,
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,
0,0,78.947,0.877,0,0,0,0,3.448,0.862,0.862,0,0,0.84,0,0.833,15.833,0,1.653,29.167,0,0,14.167,10,1
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, 4.839, 16.129, 16.129, 16.129, 16.129, 16.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 17.129, 
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
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
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,
0.704, 0, 0, 10.084, 0, 8.333, 0.943, 0.943, 0.952, 0.971, 3.093, 15.054, 1.163, 7.229, 0, 0, 0, 0, 5.085, 5.263, 0, 1.093, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.993, 0.
,3.571,0,0,6.061)
> x8 <- c(10.256,0,0,3.333,3.175,0,1.471,0,0,0,0,2.899,1.449,60.87,4.348,53.623,35.294,98.529,0,4</p>
8.529, 0, 0, 0, 2.941, 0, 0, 0, 0, 2.817, 0, 71.831, 87.5, 93.243, 0, 5.333, 16.883, 0, 0, 0, 1.299, 0, 0, 1.333, 1.333, 0
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,4,2.703,5.405,8.219,9.589,2.74,9.722,1.389,4.167,3.448,3.774,5.128,6,7.547,0,1.429,2.857,1.408,4
.225,1.389,1.887,0,1.613,0,28.125,18.75,0,0,0,0,1.37,2.74,10.811,16.667,16.883,19.231,1.282,2.564
,2.632,2.703,2.941,7.692,4.762,0,3.704,0,1.923,8.955,6.25,0,1.587,0,15.625,17.647,3.896,2.597,4.7
06,1.176,6.977,3.488,3.409,2.198,1.053,1.042,1.053,1.031,0.971,1.852,5.405,2.586,0.855,16.102,0,2
.857, 0, 50, 0, 65.306, 0, 22.449, 0, 0, 0, 2.041, 0, 0, 4.082, 64.626, 0, 1.361, 9.524, 47.619, 0, 0.68, 0.68, 47.619, 0, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0.68, 0
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, 0.69, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685, 0.685,
85,21.233,0.685,0,16.107,16.779,0,0.671,3.356,0.671,0.671,0.0,2.685,26.846,0,0.671,16.779,0,0,1.3
42,6.711,0,0.671,40.94,0,0,0,0,1.342,2.027,65.541,0,0.671,0.676,0,0,7.432,0,0,33.108,0.676,1.351,
0,0,2.027,0,0,0,2.013,6.04,0.671,0,8.667,4,0,0,0,4.027,0.671,2.685,0,63.758,2.685,53.691,0,0,1.33
3,0,0,0,51.333,1.333,0,0.667,0,56,0,0,0.667,22.667,0.667,0,4,38,1.333,0.667,8.667,17.333,8,12,6.6
67,1.342,0.671,12.752,2.74,6.207,2.759,6.944,51.389,2.083,0,0.714,3.571,6.542,29.577,7.746,2.083,
5.556,3.356,10.067,13.423,0.671,2.013,0,6,1.342,0.671,0,5.333,2.013,0,0,0,2.685,6.711,41.216,16.1
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
,26.351,14.094,4.698,2.013,0,0.671,2.013,0,0,0,1.342,4.698,0.676,2.703,14.865,0,1.361,33.333,25.1
7,36.054,0,19.048,0,4.082,3.401,5.442,53.061,0,0,2.055,0.685,0.685,13.014,1.37,2.74,3.448,5.517,1
3.194,0.694,0,0,4.225,16.197,0,0.699,0,4.828,0,5.479,78.082,0,1.389,0,0,6.25,0,1.389,0,0,0.694,
97.917,0,20.139,0,0,48.611,0.694,85.417,0,0,0,84.722,0,0,2.778,0,0,50.694,0.694,10.417,0,21.528,0
,0,2.759,21.379,0,0,6.944,19.444,0,0,2.128,12.766,75.177,0,2.837,11.348,0,0,8.511,2.128,3.546,4.9
65,23.404,2.837,7.801,0,25.532,18.571,0.714,13.571,5.714,0,2.143,0,15,0.719,5.755,0,0,0,0.735,1.0
1,0,13.265,0,0,0,0,1.087,7.143,3.797,5.128,4.762,1.389,1.429,0,1.587,4.839,24.59,1.639,6.78,15.25
4,1.754,0,2.128,0,0,0,2.703,0,4.878,2.5,0,0,0,2.632,2.778,0,0,12.121,0,4.348,0,0,0,0,16.667,0,0,1
2.5,0,0,12.5,0,0,0,25,0,0,7.692,0,0,5.882,35,0,3.704,11.765,6.25,0,0,0,3.175,4.762,0,0,1.515,1.49
3,49.254,1.493,61.194,20.896,100,0,41.791,2.985,0,0,2.941,0,0,2.899,0,0,0,79.71,62.319,97.143,0,0
,15.942,0,1.429,0,2.857,0,0,8.824,0,1.449,1.449,1.429,4.286,8.451,8.451,1.493,6.061,3.125,6.667,3
.922,11.765,0,14.286,0,0,16.667,0,7.692,9.091,6.667,5.263,4.255,0,20,25.641,2.273,1.786,3.448)
> 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>
41,1.042,1.01,5.051,2.941,6.731,4.673,0,8.397,0,0,0,50.667,0,59.333,0,25.333,0,0,0,0,0,0,0,4,65.772
,0,0,4.698,53.02,0,0,0,38.667,0,0.667,3.333,0,0,0,18.792,0,0,0.676,10.135,0,0,4.698,7.383,0,0,21.
622,20.27,0.676,0,20.805,0,0,20,14.765,0,0.667,2,0,0,0,0,2,26.667,0,1.333,22,0,0,0,5.333,0,0,36.6
67,0,0,0,0,0,1.333,57.333,0,0,0,0,0,1.342,0,1.333,34,0,0.667,0.667,0,2.667,0,0,0,2.667,1.333,0,0.
667,8,0.667,0,0,0,0,0,2.013,0,60.403,0,59.333,0,0,1.333,0,0,0,53.333,1.333,0,2,0.667,50,0,0,1.333
,27.333,1.333,0,2.667,36,0.667,0,10,24,2.667,9.333,8,0,1.333,8,2,6,0,6,53.333,1.333,0,0,8.054,3.3
9,1.818,0,0,0,32,10.667,2,2.685,1.342,9.396,14.094,0,4.698,0,5.333,2,0.667,0.671,2.703,2.027,0,0.
671,0,2.703,2.685,48.667,19.333,1.333,2.667,0.667,1.333,4,6.667,0,0.667,20.667,1.333,20.667,0,3.3
33,1.333,0,0,0,1.333,0,4,0,0.667,1.333,1.333,2,0,0,4.667,0.667,0.667,0,0,4.667,0,22.667,9.333,0,4
,0,0.667,0,22.667,0,0,34.667,4,0,36.667,4,7.333,2.013,35.57,19.463,2.013,1.342,0,0,2.685,0,0,0,0,0
0, 1.361, 1.361, 0, 1.361, 14.286, 0, 0, 28.571, 26.531, 35.374, 0.68, 19.728, 0, 4.795, 2.74, 9.459, 56.081, 0, 0, 0
.68,0,0.68,4.762,2.041,10.204,6.122,6.803,17.687,0,0.68,1.351,5.405,17.568,0,0,0.676,4.027)
> 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>
79.195,0,0,0.671,0.671,0,54.362,0,2.685,0,22.973,0,0,1.351,17.568,0,0,5.479,24.658,0,0,4.138,17.
241,75.172,0,2.069,11.724,0,0,8.966,0,0,1.379,29.655,0.69,4.828,0,19.31,20.69,0.69,16.552,3.448,0
,4.138,0,22.069,2.069,6.207,4.138,0,0,0,26.957,0,17.91,3.39,0,0,0,0,0,2.041,2.083,0,33.333,2,8,0,
,0,0,0,0,25,0,0,16.667,0,0,0,0,0,0,0,0,0,11.111,0,0,0,0,0,0,4.762,0,0,0,0,0,2.564,4.878,0,2.1
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)
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R Console Page 4

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, 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
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,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</p>
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.488, 17.857, 39.286, 0, 10.448, 3.636, 0, 6.061, 0, 13.636)
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7.333,0,60,0.667,0,0,0.671,0,14.094,2.013,0,0,0,0.671)
> 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>
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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
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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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> 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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R Console Page 5

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.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, 9.70, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704, 0.704,
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)
> 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>
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
1.695, 0, 0, 3.39, 0, 0, 0, 0, 0, 3.39, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0.476, 17.188, 1.538, 0, 0, 0, 1.429, 0, 40, 0, 0, 1.51
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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, 2.263, 24.561, 9.091, 7.576, 9.231, 1.538, 4.545, 2.263, 24.561, 9.091, 7.576, 9.231, 1.538, 4.545, 2.263, 24.561, 9.091, 7.576, 9.231, 1.538, 4.545, 2.263, 24.561, 9.091, 7.576, 9.231, 1.538, 4.545, 2.263, 24.561, 9.091, 7.576, 9.231, 1.538, 4.545, 2.263, 24.561, 9.091, 7.576, 9.231, 1.538, 4.545, 2.263, 24.561, 9.091, 7.576, 9.231, 1.538, 4.545, 2.263, 24.561, 9.091, 7.576, 9.231, 1.538, 4.545, 2.263, 24.561, 9.091, 7.576, 9.231, 1.538, 4.545, 2.263, 24.561, 9.091, 7.576, 9.231, 1.538, 4.545, 2.263, 24.561, 9.091, 7.576, 9.231, 1.538, 4.545, 2.263, 24.561, 9.091, 7.576, 9.231, 1.538, 4.545, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.263, 2.
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.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
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.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)
> y7 <- 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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.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
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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
03,11.111,0,0,0,0,0,0,0,0,0,6.061,0)
> y8 <- 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
,1.429,0,0,90.141,11.268,2.778,0,0,0,0,28.205,0,1.299,0,15.584,18.667,0,2.667,0,12.162,8.108,12
.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,
0.69,8.163,0,5.479,14.384,0.685,0.685,1.37,0.685,1.37,84.459,3.356,6.04,0,0.671,0,0,5.369,22.819,
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,
0,0,0,0.671,0.671,1.342,0,0,2,0,0,0,2.667,2,0,1.333,0,1.333,0,0,16.667,3.333,0,0,0,4.667,0,1.333,
3.333,0,4,0,0,0.671,0.671,2.013,2.74,0,0,6.25,4.167,1.389,0.699,0,7.143,1.869,2.817,6.338,0,3.472
,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)
> y9 <- c(0,4.054,0,0,2.685,58.389,0,3.356,7.383,0,0,1.342,5.369,69.128,0,8,8.667,8.725,1.342,0,0</p>
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225,0,0,0.699,0,0,0,1.37,1.37,0,29.167,2.083,0.694,0,0,25,0,0,3.472,0,0.694,0,7.639,0.704,0,18.05
6,0,0.694,0,0,4.861,0,0,2.778,0,1.389,0,3.472,1.389,0,0,0.694,0,0,0.69,0.69,0.69,0,1.389,16.667,0,0,
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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,
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,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
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,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)
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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
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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
,0,1.333,60.667,0,2.667,36.242,0,5.369,0,0.671,0.671,1.342,0,0.676,0,1.754,3.509,0,0,0.68,6.081,1
.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)
> 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>
69,0,0,0,0,1.342,0,0.671,0,0,0,0.676,0,0,0.676,0,0,0.685,17.123,0,0,13.793,0,0,2.759,10.345,0,0
,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
0,0,0,0,16.667,0,0,0,80,0,0,10,0,0,9.091,0,0,0,0,11.765,0,0,0,12.5,3.571,3.125,0,0,9.756,4.545,0,
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,
0,3.333,0,0,0,0,18.667,1.333,85.333,4,4.667,0,0,0,0,0,1.333,0,0,0,6.667,2,0,0.667,17.333,0,0,1.33
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
,0,4,3.333,0,0,0,0,0.667,1.333,0.667,1.333,2.667,97.333,0,5.333,2.667,6.667,1.333,11.333,3.333,1.
333,8.667,0,0,2.667,1.333)
> 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>
,0,0,3.333,5.333,0,0,0,14,9.333,0.667,0,0,12.667,0.667,0,2,2,2.667,0.667,0,13.333,3.333,0.667,2,1
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
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.
671,1.342,90.604,0,0.671,0.671,0,0.671,7.595,1.342,11.333,0,0.667,0.671,11.409,10.738,4.698,0.667
,0,0,0,0,0,0.667,0,0.667,0.667,16,0,8.667,0,22.667,0.667,0.667,0,0,0,0,0,0,19.333,0.667,2.667,2.7
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
.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)
> y < -c(y0,y1,y2,y3,y4,y5,y6,y7,y8,y9,y10,y11,y12)
> cor.test(x, y,alternative = "two.sided", method = "spearman", exact=FALSE )
       Spearman's rank correlation rho
data: x and y
S = 7069369356, p-value < 2.2e-16
alternative hypothesis: true rho is not equal to 0
sample estimates:
     rho
0.2816367
> # ---- Confidence interval ----
> if(!"RVAideMemoire" %in% installed.packages()) {install.packages("RVAideMemoire")}
> library(RVAideMemoire)
*** Package RVAideMemoire v 0.9-83-3 ***
> spearman.ci(x,y)
       Spearman's rank correlation
data: x and y
1000 replicates
95 percent confidence interval:
0.2530872 0.3088482
sample estimates:
     rho
0.2816367
```